

From ab4el.com Wed May 18 08:52:57 1994
From: "Evert Halbach" <CS-ERH@nich-nsunet.nich.edu>
Subject: "Off 80 mtrs"

I finally got off 80 mtrs. I got the "oner" xmtr fired up on 40 last night and made a contact in Kingston, Ill. from Thibodaux, La. That makes about 1000 miles per 100 mw. Of course I'm not too sure exactly how much power I was using. A 10 watt wattmeter indicated much less than 1/4 watt but don't know if I can trust that reading or not. I will try the old RF Probe trick tonight if I get the VTVM from my buddy. I tried the light the flashlight bulb trick and had no luck there. I guess I might even qualify for the 1000 miles per watt certificate (that's what I been shooting for). Anyway I guess I'm bit by the QRP bug! Can't wait to get the HW-8 this weekend. BTW where do I get info on the 1000 miles per watt certificate. I'm sure I read something about this recently???? Is this an ARRL sponsered certificate or one of the QRP clubs??? I'll be on 7.022, 7.096, 7.125, or 7140 for the next few nights between 23:30 and 02:00z. That is if you can tolerate my cw. Been off for about 15 years now and a little "scratch" a good bit rusty.

73's es Happy QRPing Evert WA50JI

P.S. Can't wait to try the HW-8 on the QUAD antenna!!!!!! Look out DX!!

Evert R. Halbach WA50JI
Internet - cs-erh@nich-nsunet.nich.edu
Phone - (504) 448-4999
Snail - P.O. Box 2168 Thibodaux, La. 70310

From ab4el.com Fri May 20 13:20:50 1994
Subject: "Spy" transceivers
From: Grover Cleveland <groverc@gvgadg.gvg.tek.com>

Hi gang,

For years I have been intrigued with the notion of suitcase transceivers such as were used by the resistance in France (and elsewhere). Then, to my delight the latest issue of Morsum Magnificat had an article with photographs and schematics.

I would very much like to open correspondence with other of a similar bent. Perhaps someone knows of a newsletter or organization devoted to such things.

Ultimately I would like to acquire or homebrew one of these radios.

Any help appreciated.

.073

Grover
WT6P

From ab4el.com Wed May 18 11:51:13 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: 1000 mile/watt award

Gang,

The 1,000 Mile/Watt award is sponsored by QRP ARCI. It is awarded for contact(s) with another amateur whereby the lowest power used by **either** station divided into the great circle distance yields a number greater than or equal to 1,000 miles/watt.

There is a \$2.00 fee or 10 IRCs for this award.

For proof of QSO, a photocopy of the QSL card and a signed statement by a witness to the card(s) validity accompanies payment. If the contact is with another QRP ARCI member, then if that individual gives you his/her member number, that will be proof of contact and copy of log entry with power levels will be satisfactory.

Send applications to: Chuck Adams, QRP ARCI AWARDS CHAIR, 830 Waite Drive, Copper Canyon, TX 75067-8581.

Previously there had been a 30 day slack period due to overlap in mail to previous awards chair. Hopefully this will no cease and a one week turnaround should be appropriate.

To help speed up this award and alleviate work on my part, I'd appreciate the inclusion of long and lat for both stations. Usually in an atlas this information is given in form of degrees-minutes-seconds. I prefer decimal number where

$\text{long} = \text{degrees} + \text{minutes}/60 + \text{seconds}/3600$ and same for latitude values.

You may apply for the award any number of times. I don't know who has the record now for the most number of KWM

(K miles/watt) awards. I have the data computerized at this time after having typed in 30 years of data. :-)

Hope this info helps.

dit dit

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed May 18 14:21:36 1994
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
Subject: Re: 1000 mile/watt award

Chuck,

How accurately is one to measure output power of the transmitter for this award?

Eric McFadden WD8RIF

From ab4el.com Thu May 19 13:28:57 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: 40/40 kits

Second batch of 40/40 kits :

QRP-New England Club reports that 38 orders for the second batch of club 40/40 (40m and 30m) transceiver kits have been received.

All parts for the second batch have been ordered and kits should still be available in June.

To receive a file on kits and NE club, e-mail your request to mvjfm@mvubr.att.com.

The new QRP-ARCI president is forming a team from the board of directors, to come up with a plan of how ARCI might work with the regional QRP clubs.

I envision ARCI coordinating activities and events

and distributing information and helping new QRP clubs, for starters....

Maybe an international QRP-ARCI club coordinator might be needed ?

Ideas from Inet members would be welcome.

73/72 Jim Fitton, W1FMR QRP-NE mvjf@mvubr.att.com

From ab4el.com Tue May 17 10:08:39 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: antenna

I had asked if anyone had seen the "Stealth" 2 meter portable beam at Dayton, and it didn't seem like many had. I got more *requests* for information..... :-)

S000000, for those who asked.....

It is made by Swiech Communication Systems, 12218 Greentree Road,
Poway, California, 92064
Phone 619-748-2286

The model number is COY2M3EL. The flyer shows the radiation patterns and claims a 6.1 dBd measured gain. Max power is 75 watts.

If I remember correctly, they were asking \$64.95 for it.

Duane
wb9omc

From ab4el.com Thu May 19 11:30:03 1994
From: LVE@mica.inel.gov
Subject: Antenna Traps

There was a message posted last week asking for help in building a three band trapped dipole. I sent a response to the internet address shown (usr12314@tso.uc.edu) but it came back as "undeliverable mail - user unknown". So, I will post it here for general information:

Saw your note asking about traps for 10, 15 and 20 mtrs. I wrote an article that was published in the ARRL Antenna Compendium II describing a BASIC

program for use in designing antenna traps made from coax cable.
The article included construction info on 10, 15 and 20 mtr traps for a
three band dipole (I used it as an attic antenna for about 10 yrs in Conn.
and made DXCC -- so it does work!) For a reprint of the article, send me
a business size SASE. If you also want a copy of the program (for IBM PC
type computers; will work with BASICA, GWBASIC or QuickBASIC) also send a
formatted disk (3 or 5 in) and a postage paid return mailer. Address is:

Larry East, W1HUE/7
1355 Rimline Dr.
Idaho Falls, ID 83401

0.73, Larry.

PS -- Be sure to state what the SASE and/or disk are for.

From ab4el.com Thu May 19 08:33:31 1994
From: Bob Gobrick WA6ERB <70466.1405@CompuServe.COM>
Subject: APRIL ARCI Quarterly

TO: >INTERNET:qrp@think.com

ARCI QRP Quarterly - April 1994 Issue Status

To all concerned - I saw a posting over on the Compuserve QRP section of
Hamnet by Mike Bryce WB8VGE, the membership chairperson of ARCI saying that
the the SECOND printing of the April ARCI QRP Quarterly was just finished and
they are in the mail. Evidently they have been having problems with the
printer and they have just solved that problem - they fired the printer and
have a new one onboard. So the hope is that this will not be a problem for
the next issue - one mailing for all.

Bob VO1DRB/WA6ERB

From ab4el.com Tue May 17 09:32:41 1994
From: william.redfearn.cmwd01@nt.com
Subject: April Quarterly ?

Has anyone gotten the April QRP Quarterly yet?
Or has everyone gotten it but me? :-)

=====
Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
ph.(919) 992-3925 email: cmwd01@nt.com qrl? de N4ELM/qrp

All opinions are my own and do not necessarily reflect the views of
my employer, co-workers or any other person, real or imaginary.

From ab4el.com Tue May 17 09:55:23 1994
From: Tom_Jennings <jennings@eng16.rochny.uspra.abb.com>
Subject: Re: April Quarterly?

>
> Has anyone gotten the April QRP Quarterly yet?
> Or has everyone gotten it but me? :-)
>
> =====
> Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
> ph.(919) 992-3925 email: cmwdr01@nt.com qrl? de N4ELM/qrp
>
> All opinions are my own and do not necessarily reflect the views of
> my employer, co-workers or any other person, real or imaginary.
>
>

I haven't gotten mine yet!

TJ, kv2x

--

Thomas J. Jennings	Tel: (716) 273 7071
Development Engineer	Fax: (716) 273 7262
ABB Process Automation	
Post Office Box 22685	
Rochester, New York 14692-2685	

Internet: jennings@jennings.rochny.uspra.abb.com

From ab4el.com Mon May 16 13:16:58 1994
From: teda@meaddata.com (Ted Albert)
Subject: Argonaut 535 Questions

I purchased an Argonaut 535 this weekend from a local dealer who still had one in stock. It had the "interim" manual, which isn't very informative. I need to confirm the pin-out for the mike connector. I plan to use my Icom SM6 with the rig.

The internal lithium battery also is apparently dead. The clock resets every

time power is turned off at the rig's power switch, but the frequencies I programmed into the memory channels are retained. The rig powers up on vfo B on 15 MHZ LSB.

I suspect the "remote" connector on the back of the rig is the serial port. It appears to be a two-wire jack, so is this a TTL port?

Anyone on the net using this rig? If this is an early model, were there many revisions or mods to the rig? My long relationship with my Century/21 prompted me to give this rig a home.

73 de Ted Albert, KF8EE

From ab4el.com Wed May 18 09:03:17 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: ARK4

> From: IN%"0005512847@mcimail.com" "Bob Smith" 17-MAY-1994 21:17:06.54
> To: IN%"QRP@Think.COM" "QRP"
> CC:
> Subj: New S&S ARC 4 Kit
>
> Got this in the mail the other day.
> What do you all think??
>
> S&S Engineering ARK4 Kits
> 14102 Brown Road
> Smithsburg, MD 21783
> 301-416-0661
> Fax 301-416-0963
>
> 5.5 x 1.5 x 7.5"
> 25 oz
> Tuning range 7.000-7.150
> Tuning steps 1 kHz synthesized +/- 500Hz fine tune
> Mode CW
> Sensitivity .4uv (10db (S+N)/N)
> Output power 3-4Watts w/ 12V supply
> Current consumption 1.1A TX .15A max RX
> Input Voltage 11-15V
>
> Headphone jack - no speaker output
> On PCB design ALL componants (including controls and jacks) connect
> to the board (this also include the optional keyer componants)
>
> The tuning is the same micro switches as on their ARK40 rig.
>

> Pricing
> TX kit 99.95
> RX add on 49.95
> 200Hz audio filter kit 9.95
> Fine tune option 12.95
> Keyer option 39.95
> TX/RX Kit 144.95
> TX/RX Kit w/ all options Except Keyer and case 169.95
> TX/RX w/ all options except keyer - 199.95
> TX/RX assembled and tested 269.95
>

I just got one of these and it will be my next project. The board is up there with the best I have ever seen.. real clear silk screen and high quality plated through. the parts all look good quality. I have just opened up the manual and checked out the board so far.

S&S Engineering kits are top quality .. each manual is a novel.. the frequency counter and the ARK 40 both performed extremely well. The receiver on the ARK 40 will match any I have heard.

More later.

73

Jeff, AC4HF

From ab4el.com Wed May 18 13:38:51 1994
From: jdavey@atlanta.pamd.cig.mot.com (Jim Davey)
Subject: Re: ARK4

Hi Dan:

Thanks for the comments on the ARK4. You may be right on what caused such a negative impression on my part. I certainly will give it another chance if I get a hold of one. I have to agree that the mechanical and wiring looks like a million bucks so it took me by surprise when I used it.

As for the tuning method, I must be old fashioned cuz I prefer an LC VFO. It is almost trivial to build a 40m VFO with 100 Hz stability nowadays and this kind of stability is more than adequate for many types of QRP work. Synthesizers are easy to build with today's technology, but it is not so easy for the average builder to size up a synthesizer circuit for things like phase noise whereas it would be pretty tough to end up with a phase noise issue on most LC tuned VFOs.

72/73, Jim Davey WA8NLC

From ab4el.com Wed May 18 10:13:07 1994
From: jdavey@atlanta.pamd.cig.mot.com (Jim Davey)
Subject: ARK4 Kit

Hi Gang:

Been reading with interest the mail on the merits of various kits and homebrew circuits and had a few comments on same.

I played with the ARK4 unit at the Dayton QRP Hospitality Suite a few weeks ago and I was not impressed with the performance at all. I will say that the construction of the transceiver looked top notch, and it appears like a awful lot of engineering for the money, but listening was a big disappointment. Tuning in 1 kHz steps with a CW filter bandwidth gives the feeling that you're hopping from one side of a signal to the other if it falls between steps. This may be something you can get used to, but is certainly not the kind of thing for casual band scanning. It would be good for meeting someone on a sked, for instance. I thought that the audio was grossly distorted at any volume level (was using good headphones at the time). It was connected to a rather puny outdoor antenna at the time so would not fault it on sensitivity. Some others were attempting to make some contacts with it (it was the only rig on an antenna that evening) but I had no desire to use it any further.

I am really surprised that no one has mentioned the DC and phasing receiver designs by KK7B that appeared in a series in QST last spring (March-April-May 1993 or so). These are excellent designs that will blow you away if you have never used one. I have one of the older R1 direct conversion boards in my 40 m QRP transceiver and other than the obvious impairment of hearing the image (the other sideband) that is characteristic of this type of receiver, it sounds better than my 75S3-B w/CW filter on the bottom of 40. The phasing version described in the above articles is really great. Talk about a "window on the band". These receivers are quiet, have gobs of dynamic range, and deliver really high quality, low distortion audio. There is one drawback, though, and that is all this performance has a price. The total cost of the components of the phasing receiver (R2) can get a little steep, especially if you buy components for just one receiver and don't get to take any quantity discounts from Digi-Key. Some components have to be high tolerance parts and can't be easily substituted. But the effort is well worth it. Rumor has it that this may be alleviated somewhat by a kit being available soon (won't mention from whom as the details may not be fully worked out yet but he reads this forum and he will know I'm talking about him :-)

There is also a "mini-R2" version now which cuts a few corners for the sake of board size.

Anyway, enuf soapboxing. I don't have any commercial interest in promoting these designs but I am a good friend of Rick's and I have played with several of these radios during the design and prototyping stages. I can attest to the meticulous design approach that was used and which has obviously paid off. I encourage you to give one a try.

P.S. Rick has received an enormous amount of feedback from readers of these articles and cannot possibly answer individual letters nor spend his evenings on the telephone, so have mercy on him and read the QST articles thoroughly and give it a go. Or if you don't want to mess with the parts procurement, have patience and I think a kit will be available shortly. Happy building!!

72/73

Jim Davey WA8NLC

jdavey@atlanta.pamd.cig.mot.com

From ab4el.com Wed May 18 07:54:10 1994

From: kiddi@marel.is (Kristinn Andersen)

Subject: Batteries/power for QRP

Hi,

I'm seeking advice on suitable batteries and/or chargers for 1-5W QRP rigs from those with experience.

What have you found to be typical AVERAGE power consumption, duty cycle (TX vs. RX) for field operation?

What type of batteries do you use?

What kind of charging system?

Etc. etc...

Please respond to me directly and I'll post the main results.

73-1 de Kris, TF3KX (kiddi@marel.is)

From ab4el.com Mon May 16 19:25:43 1994

From: Stephen Lee <slee@u.washington.edu>

Subject: Re: Buying a "silly scope"

A grad student in our department is selling his Tektronix 456 oscilloscope for \$500.00 OBO. He describes it as being in mint condition, which it is. Robert really takes good care of his equipment (ours too, I might add). This is a 100 MHz scope. Robert's email address is: robertb@cs.washington.edu

Whatever the goin' price is for a Tek 456, Robert will make you a better deal.

Also, the University of Washington is having a surplus auction this coming Saturday, May 21, 1994. There are a few older Tek scopes among the pallets of surplus equipment. I noticed one storage scope and one spectrum analyzer plug-in (up to one MHz) for the older Tek vacuum tube oscilloscopes. The auction is a silent bid, highest bid takes the goodies. For additional information, call (206) 685-1573 between the hours of 7:30 AM and 4:00 PM PDT.

From ab4el.com Wed May 18 17:17:19 1994
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: CCW QRP

>A friend of mine, who has too many QSTs with too many ideas, came across
>an article regarding a mode called CCW (which we understand to be coherent
>continuous wave), he does not remember for sure.
>Anyhow, all sorts of things are said to be possible, such as narrow
>bandwidth, excellent distance on low low power, no noise, etc.
>So.. is this a used mode? Highly experimental? Anyone out there to qso
>with? A newsletter? A fad? Promises true? Are there recognized frequencies
>to look for ccw contacts at as there are for qrp (as 7040 is for qrp
>practicioners).
>Any info would be welcome, so he can decide if it is a mode he would like
>to learn more about, build some xmtr or forget the whole thing for lack of
>available ccw operators.
>Thanks.
>Brien, VE3VAW
>Toronto, Ontario

I don't think it ever caught on, but it did seem to have some promise. I had the pleasure of working with one of the fellows who was involved, (I think his name was Andy McCaskey?) back at RF communications in the late 70's. He had a modified Ten Tec power mite setup that did CCW that he gave me a tour of one day. AS I recall he claimed it worked pretty well. The equipment used to be shown in some of the Handbooks a few years back in the specialized communications methods section, with some info on it. I remember he said the keyer was synched to the clock, and it required a little different technique to key, because you had to be right on the proper clocking boundaries. The receiver was synched to a standard, I think they were using WWV, and used some sort of correlator that read the synched up transmitter fine, but rejected any random noise. There may have been some special digital filtering in it also.

The upshot is from what I remember it worked pretty well, but just never

got enough press to become very popular. I think for a qrp link, especially a digital link these days, it might have some real potential. I believe there has been some experimentation with the techniques by some of the Lowfers down on the 160-190kHz band.

Hope that helps. Check out some of the late 80's/early 90's handbooks for more information on it. It shows Andy's rig in there, the one I saw, and gives a better overview of the system than I have managed here from memory.

Might be an interesting technology for qrp'ers to take another look at.

73 de Kevin, WB2EMS

From ab4el.com Wed May 18 14:26:21 1994
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: CCW? A practiced mode?

A friend of mine, who has too many QSTs with too many ideas, came across an article regarding a mode called CCW (which we understand to be coherent continuous wave), he does not remember for sure.

Anyhow, all sorts of things are said to be possible, such as narrow bandwidth, excellent distance on low low power, no noise, etc.

So.. is this a used mode? Highly experimental? Anyone out there to qso with? A newsletter? A fad? Promises true? Are there recognized frequencies to look for ccw contacts at as there are for qrp (as 7040 is for qrp practitioners).

Any info would be welcome, so he can decide if it is a mode he would like to learn more about, build some xmtr or forget the whole thing for lack of available ccw operators.

Thanks.

Brien, VE3VAW
Toronto, Ontario

From ab4el.com Wed May 18 17:20:48 1994
From: janderson@polycom.com
Subject: Re: CCW? A practiced mode?

Brien:

Many years ago, while still a student at college, another ham in the university's ham club was very much active in Coherent CW. At the

time he had written up several articles (tutorials?) on CCW, which I may still have at home. I'll look for them and, if you're interested, send you copies. (I think the author's name was Chuck Woodson, but it's been almost 20 years since I looked at the articles).

Actually, I've always wanted to try it out - it's another one of those projects that hasn't yet moved off the back-burner, but if there is interest out there, I'd sure like to try it.

Let me know what you find out!

Jeff Anderson, WA6AHL
janderson@polycom.com

From ab4el.com Thu May 19 09:08:08 1994
From: Adrian Weiss W0RSP English Department <AWEISS@charlie.usd.edu>
Subject: RE: CCW? A practiced mode?

C.C.W. was an experimental mode that was given some publicity back in the later 1970's because of the astounding results that were possible. However, the technical aspect of CCW made it unattractive except to the sophisticated. The astounding results (such as consistent daily QSO CA-JA with something like one-milliwatt on 2m) were due to the 10Hz bandwidth, which in turn placed extreme specs on frequency stability. For the system to work, phase-locked loops at both ends had to be synchronized to WWV to about 10/-10 (or was it 10/-11?). Practical upward limit of transmission was about 10 words per minute. On the receiving end, and this was the key to the system's success, was the signal-reconstructing circuitry. Given the 10/-11 freq. synchronization, a digital comparator circuit could predict exactly when and for how long a dash or a dot would add to the signal+signal/noise figure, and extract the di/dah accordingly. Output was reconstructed C.W., listening via the ears of the synchronized system's "ears". Dig out an old CQ from the late 70's (I forget which one, but if you can find a stack of CQ's, it'll be there!) for the technical dope. 73 Ade W0RSP

From ab4el.com Thu May 19 15:56:15 1994
From: mtrail@violet.berkeley.edu
Subject: Re: CCW? A practiced mode?

On Wed, 18 May 1994 janderson@polycom.com wrote:

> Brien:
>

> Many years ago, while still a student at college, another ham in
> the university's ham club was very much active in Coherent CW. At the
> time he had written up several articles (tutorials?) on CCW, which I may
> still have at home. I'll look for them and, if you're interested, send
> you copies. (I think the author's name was Chuck Woodson, but it's been
> almost 20 years since I looked at the articles).
>
> Jeff Anderson, WA6AHL
> janderson@polycom.com

Yes, Professor Charles Woodson W6NEY has written on the subject.
Currently he is the trustee here at W6BB, the University of California
Berkeley ARC. I think we have a copy of an article of his somewhere in the
shack, and if I find it can pass it on as well. I'll try to forward
this to him too.

Matt Trail KN6CR

From ab4el.com Wed May 18 09:05:54 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: Classic DX

All,

by the way I did have Dick's permission to publish the prices..
was my idea.. not his.. he had just sent out the fliers.

Had a couple of minutes last night .. so fired up the Classic on
20. Worked DK4SY and LZ1BJ both on first call. then worked T91ELS
(Anyone have an idea where this is?) He got my call wrong on first
shot, but then got my call, name and other info with no problem.

Real pleased so far. I still need to do some testing with portable
antennas and batteries.

73

Jeff, AC4HF

From ab4el.com Tue May 17 02:04:01 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: Classic or Plus

Hi Gang,

Lets say I am going to blow a sum of money, should I blow it over
the OHR Classic Dual bander or over the QRP Index Plus?

73,
Daniel

--

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+-----+-----+
| Daniel Wee | daniel%pandora@csah.com | ** Man needs more
| UUCP1.12b | daniel.wee@f516.n600.z6.fidonet.org | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel | needs a new heart! **
+-----+-----+
```

From ab4e1.com Tue May 17 12:48:57 1994
From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: CMOS Superkeyer II boards

I have for sale, 2 CMOS Superkeyer II pc boards with all parts already inserted. I assembled these from Idiom Press kits a couple of years ago. I removed them from keyers enclosures or rigs I built. Since I have four of these keyers, these boards are gathering dust. They work fine. I have the documentation for them as well as copies of the original QST construction article. They are very small and could be put into a rig very easily. I've use a bunch of keyers and nothing compares. I'm selling them for \$25 each including mailing. The original kits were \$50 per unit.

73, Greg KN4FR

From ab4e1.com Tue May 17 13:43:26 1994
From: BUHYOFF@VTVM1.CC.VT.EDU
Subject: CMOS Superkeyers SOLD

The CMOS superkeyer II's I had for sale sold within minutes of my posting. Thanks for all of the interest.
73, Greg

From ab4e1.com Sun May 15 11:21:36 1994
From: wyn@stc06.ctd.ornl.gov (WYNN C C)
Subject: CW Hints

[DR

Subject: CW Hints

[Jeffrey Herman wrote:]

>>Those of you who read r.r.a.misc saw on this week's Newsline that
>>a group of manufacturers of HF gear are going to start a petition
>>to reduce the code speed to 10wpm so more hams have HF privs.
>>Altruism, or more sales?

What I would like to see is the list of individuals and the associated companies of the "group of manufacturers" who started the petition. Of course one would need to post the list here for enlightenment. When their masters in the land of the rising sun hear of a counter-petition (10 watts max., tighter type acceptance, etc.) and realize the potential risk to their U.S. market share, those upstarts may not make the same mistake next year.

73,
C. C. (Clay) Wynn N4AOX
wyn@ornl.gov

=====
= Cooperation requires participation. Competition teaches cooperation. =
=====

From ab4el.com Mon May 16 09:34:58 1994
From: KANAMAA%AMGATE%MATRXA@randb.abbott.com
Subject: CW Hints redux

From: Kana, Michael (D9CY)
Date: Mon, May 16, 1994 8:30 AM
Subject: CW Hints redux
To: QRP Group
Howdy all

Sounds like those 'radio manufacturers' who want to drop the code speed real motive was to get the speeds down to where their rigs could handle it. Most rice boxes keying relays crack up at high speeds. (Ten Tec's don't). Drop the speeds to avoid the R&D cost of having to re-engineer a lousy keying design. Tsk, tsk, whats this world coming to.....

73's de AA9IL

From ab4el.com Mon May 16 12:41:46 1994
From: rdkeys@csemail.cropsci.ncsu.edu (R. D. Keys)
Subject: Re: CW Hints redux and bad relays

>
> >From: Kana, Michael (D9CY)
> > Date: Mon, May 16, 1994 8:30 AM
> > Subject: CW Hints redux
> > To: QRP Group
> > Howdy all
>

> Sounds like those 'radio manufacturers' who want to drop the code
> speed real motive was to get the speeds down to where their rigs
> could handle it. Most rice boxes keying relays crack up at high speeds.
> (Ten Tec's don't). Drop the speeds to avoid the R&D cost of having
> to re-engineer a lousy keying design. Tsk, tsk, whats this world coming
> to.....
>
> 73's de AA9IL
>
>

This is a very important point about CW in modern rigs. I have a TS-140S on a rather long term loan from a good friend (cuz he has several rooms full of rigs of various vintages). It is the absolute pits on CW QSK at speeds greater than about 20 wpm. I use rather heavy weighting of the dots to keep things at proper weighting. The relays are just too bloody slow. They were not designed for QSK but were designed for the socalled ``vox QSK'' ``semi-breakin'' ``shit-for-brains breakin''. If you have ever worked real high-speed QSK, you will instantly know what I mean. I have run 5 different TenTec rigs, from the most ancient powermites to recent deltas (now they are effectively out of my price range, so I stick to my boatanchors) and they all could handle QSK with great speed and precision. One would think that the rice box folks would sit up and take note of TenTec's QSK qualities. But, they seem slow to have taken note, or only very recently to have cared. I have heard that some of the most recent rice boxes are better in the QSK department. I hope so.

Regarding old style QSK, when properly sequenced and biased anything can be made to do rather fine QSK. Back in the ancient days, when I was a novice, my old Hammarlund RGB (HQ-120 to hams) ran full QSK with my DX-60 or my T-195/GRC-19. I guess I got spoiled early on. Even dinosaurs of the WWII era such as the BC-375 and BC-348 pair can do QSK much better than the TS-140S at speed, although the pair is considerably noisier because the whole BC-375 shakes when its rotary action keying relay fires off. To keep the relay armature light, it was made out of a wooden shaft with metal bearings. It had about a dozen contacts on it for sequencing the antenna changeover, the TX biasing and keying and the RX biasing and sidetone routing. Complex, but still works fine 60 years after the fact (actually longer that that since the design was finalized by GE in 1935, after copying an earlier RCA design for an early aircraft set dating from 1930). Amazingly, even the venerable ARC-5 gear can QSK quite fast if it is properly set up. Adjustment and sequencing of the relays is necessary and seems to be a forgotten art.

As a novice, I used to use a coaxial DOW relay with extra contacts for

QSK. I had the contact spacing narrowed to just barely perceptible and the action was quite good (25 wpm or so, which was fine for a novice).

Anyway, I do wish the manufacturers would listen up and design a better class of QSK into their rigs, especially at the prices they are trying to get, else, I will stick with what I know that does FB QSK, the TenTecs or the ol' military boatanchors designed for QSK.

Enuf prattling from this ol' CW fart.....

73 TU SU SK DE NA4G

Bob

p.s. geesh, what a tirade for a monday morning.....(:+}}.....

From ab4el.com Thu May 19 14:46:50 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: CW vs SSB Power

I can't remember who sent me the email yesterday (accidentally deleted it) but the basic question was if you set your transceiver on CW at a 5 watt output level, what should the meter read when you switch to SSB. The question related to a reported power decline using the QRP +.

I hooked up my Oak Hills meter and tried testing with both my Ten Tec Argosy II and my Yaesu 301. Both measured the same output level when they were switched from CW to SSB.

73

Jeff, AC4HF

From ab4el.com Wed May 18 12:15:06 1994
From: B61395@awtims.fe.anlw.anl.gov
Subject: Dayton Pictures

Hi Gang. The pictures from Dayton were a real treat! Thanks to Steve for taking the effort to digitize and post them. Really nice to get a look at some of the "big names" in QRP, as well as all of the FB hardware.

Two questions: (1) Why is the Yuasa battery upside down in "NORCAL40"?
(2) In "PRESENTERS", is Chuck standing on something? :-)

73E-3, Bill, KR8L/7 (DN43), M-98, NWQ-127, NorCal-??, AMSAT 8735
(wparmley@anl.gov)

From ab4el.com Wed May 18 15:50:46 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Re: Dayton Pictures

Yes, I'm standing on my own two feet. :-)

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed May 18 18:06:11 1994
From: lhalliday@creo.bc.ca
Subject: re: Dayton pictures

While the picture of K5FO was interesting, I am currently intimidating my coworkers by using the NorCal40 picture as my Windows screen background.

Does this mean I need to get out more? Inquiring minds want to know.

73 from Burnaby,
laura VE7LDH

From ab4el.com Thu May 19 15:26:30 1994
From: B61395@awtims.fe.anlw.anl.gov
Subject: Re: Discussion on Kits.

OK, so here's my two bits worth on the cost of kits.

It seems that we have two issues here: (1) "You get what you pay for," and (2) "comparing apples and oranges."

(1) Say you want to build a W7EL transceiver. Lets assume that you don't have a well-stocked junk box, so that you have to buy (in quantities of one or two) most of the parts that you need. You also have to buy circuit board material, lay it out, and etch it (and you'll never begin to make a board of the quality or sophistication that you get from OHR). Lets

say, also, that you want a finished product that looks just as nice as the Sprint. Buy a small quantity of heavy sheet aluminum (if you can find it -- some of us live out in the boondocks!), have it bent (what, you *don't* own a bending brake???) and paint it (you *do* routinely use your oven for baked-on enamel don't you?). Now, add up your total cost, and let me know how you come out!

(2) The other side of the issue is the personal satisfaction of designing, scrounging parts, trial and error circuit layout, testing, alignment, modification, making a case, finishing and labeling, and making contacts with a rig that is totally "yours." Like most of the group, I've done it both ways, and I just don't think there is any "common denominator" by which to compare the \$120 kit with the \$40 HB rig. They're not the same thing, and they were never intended to be.

While I'm on the subject (sorry to run on so long), I've always thought that "factory kits" were relatively high priced. I guess many people agree, because Heath is out of business. And you can always argue that I'm crazy to buy a \$300, two-band kit, when I can buy the QRP plus for \$600, or the Sierra for \$(160 + N*25). I'm just glad to have the choice!

As the gentleman from Texas says: Soapbox Off...

73, Bill, KR8L/7 (DN43), M-98, NWQ-127, NorCal-??, AMSAT 8735
(wparmley@anl.gov)

From ab4el.com Fri May 20 08:09:15 1994
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: Discussion on Kits.

> OK, so here's my two bits worth on the cost of kits.
>
> It seems that we have two issues here: (1) "You get what
> you pay for,"

No way! My homebrew rigs performance is as good if not better than the same version in a kit.

>and (2) "comparing apples and oranges."

again, I disagree. If you buy a NN1G MK-II and I homebrew 1 it's the same rig.

>

> (1) Say you want to build a W7EL transceiver. Lets assume
> that you don't have a well-stocked junk box, so that you have
> to buy (in quantities of one or two) most of the parts that
> you need. You also have to buy circuit board material, lay
> it out, and etch it (and you'll never begin to make a board
> of the quality or sophistication that you get from OHR). Lets

Where does OHR buy their boards from?

> say, also, that you want a finished product that looks just
> as nice as the Sprint.

In my opinion, from what I have seen, that's not to hard.

> Buy a small quantity of heavy sheet
> aluminum (if you can find it -- some of us live out in the
> boondocks!), have it bent (what, you *don't* own a bending
> brake???) and paint it (you *do* routinely use your oven for
> baked-on enamel don't you?). Now, add up your total cost,
> and let me know how you come out!
>

My costs are as follows:

nn1g: \$25.00 each total!

Spider transceiver \$20.00 each total.

I added them up.

Now remember, I even buy the resistors, so my parts are new.

> (2) The other side of the issue is the personal satisfaction
> of designing, scrounging parts, trial and error circuit layout,
> testing, alignment, modification, making a case, finishing and
> labeling, and making contacts with a rig that is totally
> "yours." Like most of the group, I've done it both ways, and
> I just don't think there is any "common denominator" by which
> to compare the \$120 kit with the \$40 HB rig. They're not the
> same thing, and they were never intended to be.

Only mechanically, some people's homebrew rigs look a lot nicer than the kits!!

>
> While I'm on the subject (sorry to run on so long), I've always
> thought that "factory kits" were relatively high priced. I guess
> many people agree, because Heath is out of business. And you
> can always argue that I'm crazy to buy a \$300, two-band kit, when
> I can buy the QRP plus for \$600, or the Sierra for \$(160 + N*25).
> I'm just glad to have the choice!

Yep, me too. I think kit companies are great. It gets more people homebrewing as they see that they can build a kit, eventually they try the homebrew approach and find they can do that as well.

>
> As the gentleman from Texas says: Soapbox Off...
>
> 73, Bill, KR8L/7 (DN43), M-98, NWQ-127, NorCal-??, AMSAT 8735
> (wparmley@anl.gov)
>

Sorry Bill, but everybody has an opinion these days :-) Self included. I just want to let everybody know that you can do it for less than the kits, and that you can make it perform as well as the kits, and probably look as good if not better. As far as the p.c. boards are concerned.. well, ok, I don't silk screen on the parts designators, but my boards look great when they are done, and in the case. Oh well, we beat this to death before, and that was it.

The thing that really bugs me is that there seems to be a trend to keep artwork under wraps so that commercial companies like XXX cannot scoop up the design, and call it their new product without giving credit appropriately. Well in the end, this hurts people like me that want to build my own p.c. boards and homebrew the current design rigs without spending the big bucks for the kits. I realize I am in the minority because most homebrewers probably ugly construct, but I like p.c. boards personally, and I feel slighted when all my colleagues here are building the latest kit, and I cannot build the thing because the artwork is not available.

WOW , off soap box,...

Brad WB8YGG

From ab4el.com Fri May 20 08:40:45 1994

From: Stephen Trier <sct@po.cwru.edu>

Subject: Re: Discussion on Kits.

Something interesting I picked up on about kits: A friend is in the kit design business. He decided that for a small producer, there is a fixed overhead of about \$20 per kit above the parts. That includes packaging, the manual, labor expenses, and some profit.

For more expensive kits, sure, the overhead will be more. This \$20 is just a rule of thumb for the minimum overhead cost in making a kit.

What do I think? I think it's awesome that I started this hobby right when both the kit and from-scratch worlds are blooming! Talk about choices! :-)

Stephen

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From ab4el.com Fri May 20 15:45:32 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Dumpster Support Group

Dumpster Support Group

Whew! I am so glad to know there are others addicted to 'dumpster diving' in search of radio components. I thought I might have a few cold-solder joints upstairs for partaking in this activity on campus and at the harbors (yes, harbor dumpsters have yielded: a nice DF receiver, a VHF marine band transceiver, a shortwave receiver, a LORAN navigation receiver, various communication antennas, etc.)

I can now proudly hold my head up high as my head is submerged in the dumpster...

.73,
Jeff NH6IL

From ab4el.com Fri May 20 17:15:37 1994
From: "James H. Haynes" <haynes@cats.ucsc.edu>
Subject: Re: Dumpster Support Group

I just learned yesterday that we are no longer allowed to put unwanted computer equipment into the dumpster; I guess it's now considered hazardous waste.

From ab4el.com Tue May 17 17:27:52 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Feedback

1. I didn't post my article but one time. :-) It showed up 5 times here in Dallas.
2. I stand corrected. The number of NorCal 40s is about 200 kits. I forgot about the second run.
3. It is true that commercial kits will have better receiver

performance than the NorCal 40. That statement does not put down the NorCal 40 on its performance or its design criteria. It is a good rig and there are a lot of happy campers out there using them.

It's good to see some excitement generated by the new prices at OHR. It'll be interesting to see how this effects others in the coming weeks. Nothing like competition to get the blood flowing and the money too. :-)

Political article to follow, after I'm sure the mail server isn't going to send out N copies, where N is large.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed May 18 11:26:18 1994
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: Feedthru Capacitors

To the person requesting feedthru capacitors a couple weeks ago. I have a number of them available@ 10 for \$5. Also have Ten-Tec Corsair VFO 5.0 to 5.5MHz for \$40. Chip Owens, NW00 Boulder, CO
email: owens@stout.atd.ucar.edu

From ab4el.com Sun May 15 02:54:35 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Foothill

Today was the Foothill Swap Meet, and a "spur of the moment meeting" for the NorCal QRP group. I had posted a notice on the internet QRP Forum that a small group of us were getting together at the hotdog stand at 10:00. I figured maybe 6 or 7 would show up. Boy did I underestimate the power of the "information highway". We had 27 show up and have a good time of sharing qrp info.

I usually drive over to Foothill, but that means getting up at 4:00 AM to get there by 6:30. So, I went over on Friday night and got a motel room. Just happened to take the QRP rigs with me, had the NorCal 40, Sierra, 30-40, and 40-40. After dinner I set up in the motel room. The antenna was a 66 foot long wire with a 33 foot counterpoise. I layed the wire on the floor of the balconey, and spread the counterpoise out in the room. The

MFJ 971 QRP tuner had it flat as a pancake in nothing flat. I used the 40-40 and made a couple of contacts into Texas. Nothing spectacular, just fun. Bedtime came early, as I had left a 6:00 AM wakeup call.

The next morning I was rudely awakened by the phone and then remembered where I was and why the phone was ringing. Jumped right up and into the shower, shaved and was on the road in 15 minutes. I arrived at the swap meet at 6:30 AM and could hardly find a place to park. But, I didn't mind the long walk to the flea market, as I had a 15 minute trip instead of a 2 hour 120 mile drive.

If you have never been to Foothill, you have to understand that it is like a mini Dayton. There are about 15 rows of swap tables, with the rows about 50 to 75 yards long. I started walking and looking and drooling, and then after a row and a half, I met Bob Warmke and Ron Manabe. I had to show them the new 30-40 and 40-40 rigs. They were packed in my duffle bag, and I set it down and opened it up to get the rigs out. Big mistake. When I did so, immediately several hams walking by stopped and looked over our shoulders. Their first question was "What's that?" and when they were told a 40 meter transceiver, it was "Hey Herb, come over here, you gotta see this. You won't believe it." They then wanted to know if it worked, and who I had QSO's with. Thirty minutes later, I finally break away and resume my trek through the flea market.

I make another row and am now on row 3 when I spy Eric Swartz, WA6HHQ of this group. Eric has a table, and has written a couple of mods for the NorCal 40 that are in the June edition. He asks if I have the Sierra as he wants to show it to a QRO friend. So, I put the bag down and start pulling out the rig. Eric sees the other rigs and asks about them. So, all of them come out. It is the same story, second verse. Again it takes about 30 or 40 minutes to show them and again we draw a crowd. But I break away and head down row 3.

I turn the corner and meet Terry Young, Denis Englander and Bob Lai, all NorCal members and they want to see what I have brought from Dayton. I pull out the 30-40 and the 40-40 rigs that were put in the TP-17 TenTec cases and show them. Of course the tops come off immediately so they can look under the hood. "Where do you get these?" "Does it come with the case?" "REALLY, only 40 bucks???" All three make the same comments at about the same time. And again, we soon find new faces looking over our shoulders. Oops, I look at my watch and now it is 9:45 and I am supposed to meet the guys at 10:00 and I have only seen 3 and 1/2 rows of the 15. I hurried over to the hot dog stand and there were all the guys. Bob Warmke, Stan Cooper, Vic Black, Eric Swartz, Terry Young, Jeff Anderson, Jim Cates, Dara Ea, Ron Manabe, Jeff Furman, Emil, Stan, it was great. Guys kept coming

by and soon we had a crowd around the pickup. They all wanted to hear the 40-40 so I hooked it up to the hamstick and they all listened. The verdict was excellent receiver, quiet, sensitive and stable. Sounds like a NorCal 40. That is a high compliment from these guys, they are really tough.

Jim Cates got the buy of the swap. He bought a complete HW-9 with all of the accessories in a wooden box. Sheesh, here I am dragging out these rigs and Jim gets the new rig. Ok, he deserves it for all of the hard work that he does for the club. But still,..... It was a fun day, and I have a suggestion for the rest of you. If you are going to a swap, post a meeting place for QRPers to get together for a show and tell session towards the end. It is a great way to end a perfect day at the flea market. You get the chance to show off all of those great buys to an audience that will ooh and ahh instead of roll their eyes, shrug their shoulders and shake there heads side to side and say "You bought more of that junk for the garage???" (Wife)

Have a good week and 'keep your soldering iron hot' (quote from George Dobbs, G3RJV). 72, Doug, KI6DS

From ab4el.com Thu May 19 15:33:27 1994

From: smitht@slick.sps.mot.com (Trevor G. Smith)

Subject: For Sale OHR20 with built-in Superkeyer II

For Sale: Oakhills Research OHR-20 with built in CMOS SuperKeyer II.

all manuals and DC power cord

\$150 plus shipping

72 Trevor AB5EU G3WQO

--

From ab4el.com Wed May 18 14:56:52 1994

From: Greg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>

Subject: For sale Pwr/SWR meter

I have a "mint" condition Autek automatic computing SWR/Pwr meter for sale. It is in perfect condition. Has a remote pickup and handles QRP as well as QRO pwr levels in either 20, 200 or 2KW ranges with a 5 watt center scale on the 20 watt range. Will measure to 1w very accurately according to my tests. I am selling because I need to get a meter that is more portable. Model number of this meter is WM-1.

Will ship for \$80.00. Cost new was \$125.00. All documentation included.

73, Greg KN4FR

5 watt at

From ab4el.com Sat May 14 15:15:14 1994
Subject: ft-7 power adjust ?
From: Stan Goldstein <stan@cruzio.com>

Does anyone know how to turn down the output power on the FT-7 ?
Currently it is putting out 10-15 watts .
Thanks , de Stan N6ULU.

--

From ab4el.com Thu May 19 20:16:13 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: HamCom 1994

Gang,

Weekend of June 11th is the big hamvention in Dallas,
well, really Arlington TX.

We have a booth there and I'm wanting to collect all
the club application forms in the world and copy them
for handouts. If you or a member of your club will
send to me, via US Mail, one copy of the form, I will
see that they are copied and then placed at the desk.

It will cost me about \$5 per hundred copies and I'll
get them made up as we go along during the 'vention.
This is the ARRL National Convention also this year.

Expecting over 10,000 folks, at least I think that is
the figure quoted around town. Maybe more, so if
you would like to get your club represented there,

let me know. I've already gotten the NorCal, Colorado Club, and NE-Club info. I may have to just do a small booklet, like the newsletter with the poop in it.

I would also like to get one each, NorCal Sierra, NorCal 40, NE-QRP kit for display. Hint. Hint.

I will have some OHR, Danny's rigs, and others that I have personally built there.

If you're coming to town, let me know.

MXM will be there. TenTec didn't get a booth. Don't know about Tejas RF Technologies.

dit dit

p.s. QRP Forum will be on Sunday, just after the CW contest. CW - 11-1pm and 1-3pm for the QRP Forum.

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Tue May 17 07:25:10 1994
From: C=BAILEY%IS%211EIS@ANG193FS.ang.af.mil
Subject: HEATH INFO

For those like WA6AHL, looking for Heath support you may try contacting:

Heath Company
PO Box 1288
Benton Harbor, MI 49023-1288
(616)925-5899

(Info from 'Radio Fun' April 94).

They may not be able to help with all the Heath line, but it's worth a try.

.0073 de Cameron, KT3A.

From ab4el.com Fri May 20 03:49:03 1994
From: Alan Kaul <kaul@netcom.com>
Subject: Help pls FTP Dayton pix

Hi GANG. Sorry to plead ignorance, but I'm having a rough time FTP-ing the rig and other pix from Dayton. Can anyone explain here on the reflector how to navigate to the photos, and also let me know if I need special software to view or download them? Pls and tnx. 73, 72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From ab4el.com Thu May 19 00:44:39 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Hoot Owl Sprint

Cam Hartford, N6GA, called me tonight to ask that I put a reminder that the Hoot Owl Sprint is the next ARCI contest. It will be held from 2000-2400 LOCAL TIME on May 29. More details to follow tomorrow. Cam asked me to put this on the net as no one knows when the next QQ will arrive. 72, Doug, KI6DS

From ab4el.com Wed May 18 20:26:31 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: HW-9 HELP

I have a friend, Jim, WA6GER who just bought a dead HW-9. The previous owner said that it never worked after he hooked up the power backwards (reverse polarity). Has anyone ever had this happen? Where and what should Jim look for?? Thanks, Doug, KI6Ds

From ab4el.com Thu May 19 18:17:07 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: Index Labs QRP+

Hi Gang,

Has anyone got their QRP+ back from the Lab? How has it improved? Does anyone know anything about the fixes or improvements that have been done? Are the birdies and bugs still there? Tks all.

73,
Daniel

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+-----+-----+
| Daniel Wee | daniel%pandora@csah.com | ** Man needs more
| UUCP1.12b | daniel.wee@f516.n600.z6.fidonet.org | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel | needs a new heart! **
+-----+-----+
```

From ab4el.com Wed May 18 18:29:46 1994
From: ryme@wpsmtp.bloomu.edu

Subject: Internet Demo

Greetings,

At 1900 this evening, we will demonstrate the Bloomsburg University (PA) Internet connection to our local ARA members.

I would ask a question in advance of the live demo. Any responses to the QRP list would be appreciated. Our demo will include reading the mail from the QRP list.

Tonight's question is:

How would you advise a newly licensed Amateur (Novice or Tech Plus) concerning equipment for an HF station?

Please consider these questions in your answers:

Would advise for or against QRP operating as a starting point?

Should they try new/used, or kits/homebrew?

What types of antennas?

Our Club has interest in HF, a exposure to homebrew, and a growing interest in QRP.

Thanks in advance for any help,

73 to all

John

N3PFF

From ab4el.com Tue May 17 17:55:06 1994

From: dgf@netcom.com (David Feldman)

Subject: Is there other radio-oriented mail lists?

I heard there was one for contesting but couldn't find it in the "lists" output from majordomo@think.com

Thanx! 73 Dave WB0GAZ dgf@netcom.com

From ab4el.com Tue May 17 19:01:18 1994

From: dgf@netcom.com (David Feldman)

Subject: Is there other radio-oriented mail lists?

I heard there was one for contesting but couldn't find it in the "lists" output from majordomo@think.com

Thanx! 73 Dave WB0GAZ dgf@netcom.com

From ab4el.com Tue May 17 20:09:56 1994

From: dgf@netcom.com (David Feldman)

Subject: Is there other radio-oriented mail lists?

I heard there was one for contesting but couldn't find it in the
"lists" output from majordomo@think.com
Thanx! 73 Dave WB0GAZ dgf@netcom.com

From ab4el.com Tue May 17 21:10:38 1994
From: dgf@netcom.com (David Feldman)
Subject: Is there other radio-oriented mail lists?

I heard there was one for contesting but couldn't find it in the
"lists" output from majordomo@think.com
Thanx! 73 Dave WB0GAZ dgf@netcom.com

From ab4el.com Tue May 17 20:55:25 1994
From: Bob Smith <0005512847@mcimail.com>
Subject: Re: Is there other radio-oriented mail lists?

Thanks David

Date: Tue May 17, 1994 08:26 pm EDT
From: David Feldman
I heard there was one for contesting but couldn't find it in the
"lists" output from majordomo@think.com
Thanx! 73 Dave WB0GAZ dgf@netcom.com

From ab4el.com Wed May 18 10:23:16 1994
From: montp@minerva.robado.me.com (Mont Pierce)
Subject: Re: Is there other radio-oriented mail lists?

From ab4el.com Tue May 17 12:22:15 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: K5FO newsletter

I just received the K5FO newsletter. If you do not get this
one, you are missing some excellent information and a great
technical challenge. Excellent !!

Congratulations to Chuck !

Chuck does a good job of filling in the blanks between information
and understanding.

(Also, the Rorshach item on the logo is a D-104 mic, just as I
ahem.....er.....suspected all along.)

Thanks Chuck.....

72 Jim W1FMR

From ab4el.com Fri May 20 12:35:35 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: K5FO vertical

Doug, KI6DS, listed my height at 6'7". Sorry, I'm only 6'6" and that's when I haven't been beat on by one of my three younger brothers who all are a 7'0".

: -)

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Thu May 19 14:19:29 1994
From: sas@opus.xyplex.com (Scott Sminkey - Sustaining Eng Group)
Subject: KH6CP QRP Three-bander

A few years ago, I built the QRP Three-Bander described in the QST article by Zack Lau KH6CP/1. I'm wondering if anyone else on the list has built or used one of these rigs, or what people's opinions might be on the rig. Mine is crystallized for 21.060 and works pretty good, but it does suffer from foreign broadcast "bleed thru" presumably from the 7 MHz sw broadcasters. Wayne N6KR had a suggestion for improving the filter in the T/R switch I think it was, to eliminate the peaks for each band and just run it broadbanded. Does anyone have any other suggestions for improvements to the rig?

.0073,
Scott W01G

=====

Scott Sminkey	email: sasminkey@eng.xyplex.com
Software Sustaining Engineering	voice: 508 952-4792
Xyplex, Inc.	fax: 508 952-4887
295 Foster St.	(Opinions, comments, etc. are mine,
Littleton, MA 01460	not Xyplex's...)

From ab4el.com Thu May 19 18:17:06 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: Ladder line feeds

Hi Gang,

I've been reading the April QST and noticed that in one of the

articles, ladder line feeds was touted to have far lower losses than coax feeds. This is of great interest to me since in QRP operation, you want to get what little you have out on the air. My questions are:-

1. Since these ladder line/twin feeds are not 50 ohm, is there anything I should do to take this into consideration when changing my existing coax setup to a ladder line? I.e. do I need a trans-match? An ATU to retune? To re-cut the antenna for new SWR conditions? Un-Un for matching?
2. What impedance twin/ladder feed is best? 300 ohm? 450 ohm?
3. Does ladder line feeds imply that it is more prone to RFI in general since it has no shielding? I have lots of computer equipment.
4. Should I switch my 100+ feet coax to a ladder line?
5. Since my present setup shows a completely flat SWR at the transmitter end, should I worry about line losses? I.e. will changing to a ladder line make things any better?
6. Is there anything else about ladder lines that I should know of?

73,
Daniel
--

```
+-----+-----+
| Daniel Wee | daniel%pandora@csah.com | ** Man needs more
| UUCP1.12b | daniel.wee@f516.n600.z6.fidonet.org | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel | needs a new heart! **
+-----+-----+
```

From ab4el.com Sat May 14 15:14:30 1994
From: BHOWLE@delphi.com
Subject: LM-386 Pin Out Needed -

Help ! I need the pin assignments for the LM-386 audio amp.

I just ordered the T-Kit 1.5 watt audio amp. to soup up the audio output for my MFJ-9020. I'd like to insert the Ten Tec audio board in place of the LM-386 so the output travels to the audio filter and speaker/headphone jacks via existing wiring.

I wonder if anyone has tried this before - all of the cures for low audio output that I've gotten from MFJ and other sources have not provided a satisfactory solution.

What say guys?

TNX

Bob - WA4ZID - in Mississippi -

From ab4el.com Thu May 19 07:48:51 1994

From: C=BAILEY%IS%211EIS@ANG193FS.ang.af.mil

Subject: MORE FOR LESS

Hi Gang,

I sure hope that Brad, WB8YGG will share some of his secrets to building more for less. This is the spirit of QRP! I can certainly relate to his comments. It is the amateur tradition to build. At one time (before I was born), that was the only way you could get equipment on the air! It was out of necessity. Today, we are spoiled by the the blessings of technology and mass production. I love to build, and at times it is out of necessity. Recently, there was amateur who wrote an article for "QST". He stated that his yearly budget for amateur radio was \$100! Most of us spend that on publications. W3TS builds stuff from scrap consumer items. Building does more than build equipment, it builds character, knowledge, and self-esteem! Brad, we're listening.

.0073 de Cameron, KT3A

From ab4el.com Thu May 19 10:29:58 1994

From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Subject: Re: MORE FOR LESS

> Hi Gang,

>

> I sure hope that Brad, WB8YGG will share some of his secrets to building more
> for less. This is the spirit of QRP! I can certainly relate to his
> comments. It is the amateur tradition to build. At one time (before I was
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> mass production. I love to build, and at times it is out of necessity.
> Recently, there was amateur who wrote an article for "QST". He stated that
> his yearly budget for amateur radio was \$100! Most of us spend that on
> publications. W3TS builds stuff from scrap consumer items.
> Building does more than build equipment, it builds character, knowledge, and
> self-esteem! Brad, we're listening.

>

> .0073 de Cameron, KT3A

>

>

Wow, I have no secrets.

I just added up the cost for my projects, and that's what it came to. First let me say that those \$10.00 air variable caps from Dan's small parts and kits are nice, but that's too much! I have bought most of those at hamfests for 50cents or so. And then there's the other potentially pricy part being the p.c. board, where I make my own. Again I buy surplus board material for pennies per sq inch. The big cost there is the \$3.00 for the etch at Radios Shack, which does several boards..

Then there's parts like ne602's well I figured this was a pricy part till I bought 10 at a time from 624 kits for \$14.00. Torroids are another pricy thing, but if you buy from Dan's small parts and kits, there is minimal cost.

For my resistors, I get them at the local surplus store for 3 cents. for diodes, about the same. So what's the big deal with cost? I don't know. \$60.00 for an nn1g is a good price actually, but if you sell it for \$100.00 then it's too much. Oh, enclosures.. Well again.. \$2.00 at the local surplus store, and that's one of the expensive parts in my radios.. :-). I only started buying the boxes because they were cheap. Before that I made ugly cases with double sided p.c. boards.

So add it all up, and you can see that on a part by part basis, I have built the radios for what I said, but I do carry a fairly large inventory to do that. I guess that I am fortunate to have 2 electronic surplus houses here in the area , but there are lots of hamfests, and if you go with your list of the expensive parts, like air variable caps, and cases, xtals etc. you can really reduce your costs.

No , I don't rip apart too many tv's anymore, but I wonder how cheap I could make some of these things if I did? I do know that next time I get ahold of a corless phone, or C.B. I will scrounge the parts from that for sure. Every CB is bound to have a good qrp final transistor.

On another related cheap note.. When my wife and I first got our house, I found we were in an RF hole. I needed a beam for 2 meters, but we had zero zero money! So I found a tv rotor by the side of the raod, and made a control for it inside an old recipe box. Then I made a 2meter quagi out of scraps. I didnt have a 14 foot piece of lumber for the boom, so I laminated 3 pieces end to end to form a boom. I still use that same antenna.

I too would like to hear from people on how they make things inexpensively. It seems that we have lost the art of scrounging. Is that because we have grown up, and no longer have the time to rip apart tv's or because we don't want to?

73 .

Brad WB8YGG

From ab4el.com Thu May 19 14:01:32 1994

From: N100Q Tom R. @ MR01 19-May-1994 1322 <randolph@est.enet.dec.com>

Subject: Re: MORE FOR LESS

On the topic of scrounging...

If you work at an electronics (even computers, like here) company, you have it made. You can tell who's a ham here... the dumpster divers. I go through scrap PC boards and pull whatever's expensive or useful. All semiconductors, even unidentifiable ones. Get a Newark electronics catalog as these make a pretty decent unknown part reference. Pots and trimmer caps. NPO caps - id them by the black band on top. Power resistors. Polystyrene caps - you find lots of these in old transistor radios, even cheapo ones. The poly dielectric tuning caps from the same source are ok for non critical stuff. The same cheapo radios usually have small air-core coils from which you can scrounge short pieces of enameled wire.

Other stuff - big electrolytics, transformers, diode bridges for power supplies. I found some complete (maybe even working - I dunno how to hook them up) switching power supplies in the dumpster here that had a goldmine of power supply parts.

Don't bother with little stuff like resistors, and caps. Just save the board, and pull those as needed. A few things aren't worth saving: potted toroids are too much work to get apart, switching power supply transformers that are potted and aren't really good for anything else, etc. The one exception is large power transformers - I'm currently rewinding one for a big power supply, which started life as a multiple secondary, low current transformer.

Some things you can get cheap at the ham fleas around here: air variable caps, mica compression caps, zeners, pots, some transistors, some misc. caps power resistors, etc. Some stuff you can't seem to get cheap anywhere... enameled wire being the one thing I've had problems with. I've never followed up on the advice I received for that, which was find out who buys the scrap from local electric motor/alternator/starter rebuilders.

-Tom R. N100Q randolph@est.enet.dec.com

From ab4el.com Thu May 19 15:53:25 1994

From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: Re: MORE FOR LESS

Gang,

I've been sprouting this philosophy since I got on the list. There's is no reason to buy ANYTHING - all my components come from radios and TV set I find in dumpsters and trash.

\$100 per year? Try \$0!

And your public and college libraries contain a wealth books/magazines with simple qrp circuits so there's is really no reason to even buy your own books or magazines. [Example: One gem I found in the library is titled 3000 TRANSISTOR CIRCUITS with lots of transmitters in it. Even Ade Weiss' book HISTORY OF QRP is in our library.]

.73,
Jeff NH6IL

From ab4el.com Fri May 20 01:38:13 1994
From: jerry@tr2.com (Jerome Kaidor)
Subject: Re: MORE FOR LESS

Re: Low-cost amateur radio....

My first transmitter was built on one of my mother's baking pans.
The final coil was wound on a toilet paper tube. It used a 6V6 tube
out of an old TV set. In fact, everything was scrounged.

The tuning indicator was a neon bulb. The power transformer was out
of a TV set (back when TV sets _had_ power transformers :-)).

- Jerry, KF6VB

From ab4el.com Thu May 19 11:13:42 1994
From: janderson@polycom.com
Subject: More info on CCW

Brien:

Last night I rummaged through my papers and dug up the info I have
on CCW. What I have comes from a CCW newsletter that I subscribed to in
1975, after hearing Charles (Woody) Woodson (W6NEY?), its editor, speak at
the U.C. Berkeley ham club.

In this series of newsletters he discusses the basic principles of
CCW, equipment you can make, and his experiences with CCW. Mid-80's ARRL
handbooks have a discription of CCW which is, in essence, a condensation
of this newsletter.

According to tests done by Woody, the subjective perceived level
of a 0.1 watt CCW signal was equivalent to a 10 watt CW (normal) signal -
a gain of 20 dB. However, to achieve this performance both the
transmitter and receiver must be TIGHTLY synchronized, both in frequency
and transmission rate, and the received signal filtered with a very narrow
(10's of hertz) filter.

Sending speed was controlled at exactly 12 wpm, and there were two
frequencies, one on 40 and the other on 20, which were used (they're in
the newletters, but I forgot to bring them with me).

Sync'ing both ends required very accurate VFO's (to 1 Hz), etc.

There are some circuits described, but I think that these could be simplified with today's technology - a lot has happened in the past 19 years!

Anyway, what I know is very dated, but it does sound intriguing. If anyone else knows more, or is active in CCW, let me know too. Who knows, maybe we can start a new group. 1000 miles on 0.01 watts?

Cheers,

Jeff Anderson, WA6AHL
janderson@polycom.com

From ab4el.com Thu May 19 11:50:02 1994
Subject: Re: More info on CCW
From: "John F. Woods" <jfw@ksr.com>

As I recall, the premier issue of Communications Quarterly detailed a CCW scheme used by Lowfers (1750-meter band). I think they synced up using LORAN or WWVB, which has better phase coherence across the US, and were able to achieve effective bandwidths of a few milli-Hz (as I recall). Unfortunately, that limits the throughput to something like a handful of characters per week, limiting operation essentially to beacon stations, but they are able to receive signals that were way under the noise level. As of the C.Q. article, they hadn't quite hit the 1000mile mark (which, given the power limit of 1W DC *input*, would easily qualify them for 1000mi/watt), but expected it soon. Note that the 1750-meter band is quite noisy, and doesn't have the kind of propagation that HF has, making the achievements all the more impressive.

From ab4el.com Thu May 19 22:57:16 1994
From: Stephen Trier <sct@po.cwru.edu>
Subject: Re: More info on CCW

> CCW scheme used by Lowfers (1750-meter band). I think they ... were able
> to achieve effective bandwidths of a few milli-Hz (as I recall).

A few years ago, on April 1, the Internet Engineering Task Force released an RFC on "Ultra Low Speed Networking", or "ULSnet". The RFC explained the need for ultra-low-speed communications, then proposed network designs that could achieve the incredibly low levels of performance required.

It seems the Lowfers are poised to take the lead in exploring this long-neglected area of networking research. All they need is a .0012 baud packet modem and they'll be set. :-)

QRP content: I built a one-transistor VFO for my 40m receiver project today. It's my first radio building project, and it works. It puts a gorgeous (OK, I'm biased!) sine wave on my oscilloscope. It even works after falling to the floor twice!

The design is a very simple DC receiver from one of the W1FB books, the one with the two-diode detector. It will be interesting to see how it works. I'm not expecting any miracles, but it will be fun to play with.

Stephen

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From ab4el.com Tue May 17 06:46:37 1994
From: Bob Gobrick WA6ERB <70466.1405@CompuServe.COM>
Subject: NE-QRP Newsletter

TO: >INTERNET:qrp@think.com

Posting for Internet QRP List

The New England QRP Newsletter - "72" and More..

Review and Commentary by Bob Gobrick VO1DRB/WA6ERB

The QRP Community has been happily spoiled by the number of high quality QRP newsletters sprouting up everywhere and I'm sure some of the credit goes to the inspirational "flow" of material generated by the Internet QRP List. Isn't the Infobahn phenomenal (just finished reading my first issue of "Wired" magazine and have decided to sprinkle my writing with techno-jargon to elevate my vocabulary above my Extra class license level :-))).

During the excitement of leaving for the Dayton hamvention I picked up my April 94 issue of the New England QRP Club newsletter "72". I just finished reading it cover-to-cover and all that can be said is "Great Job Gang". The newsletter is done in traditional portrait style with 13 double sided 8 1/2 x 11 pages. The NE-QRP editorial team follow a "regional" newsletter format with a good mix of New England QRP activities (I include

Newfoundland, Canada as part of "regional" New England) and a good number of high quality QRP technical articles.

A short sampling of the index shows the lead technical article on the New England 40-40 and 30-40, a pair of \$40 club transceiver projects, announcements about the QRP-Hamming Bicycle tour, Internet, NN1G Xcvr building notes, NE-QRP meetings, nets and Officer reports (yes, officers - the New England QRP Club, in true "Yankee" tradition, has delegated officers to spearhead the varied club activities), a review of the QRP Plus and finally two great technical tutorials.

Tutorials - now that's a subject forgotten about by the old time QRPers (QRPers for more than a year) with their frenzy of building this month's "hot" club and commercial kit offering. The "72" editors were able to capture the essence of beginner tutorials by these two articles. The first was a two part series on "A Lesson in Kit Building" by James, KA0IQT dealing with all kinds of simple ideas on building (some even the ole Heathkit manuals didn't cover). Second, was an article by NE-QRP member Dennis, K1LGQ on Charts & Graphs - little tidbits put in graphical form (I noticed the little chart on Time Conversion didn't list Newfoundland Standard time which differs by half hour from Atlantic Standard time - oh well maybe Dennis doesn't consider Newfoundland part of New England - I'll ask the Queen to summon him on that).

Congratulations to the New England QRP club for a great newsletter.

If you've read this far, I'm now going to change gears and ask for your thoughts (in an open forum) on QRP newsletters. I believe the folks on the Internet QRP List are in a good position to evaluate and comment on the information that is presented by the regional QRP clubs. I'll come forth and admit it - I am a QRP information junky. I subscribe to newsletters from the ARCI, G-QRP, New England, Northern California, Michigan, Northwest and North Texas (K5FO) QRP Clubs as well as the day-to-day infoflow on the Internet QRP List. I can't get enough of this addictive stuff. I've been known to stalk out the mailman (excuse me, mailperson) to see what NEW newsletters have arrived, so I don't miss a thing. I'm now contemplating joining the St. Louis, Colorado, Oklahoma, Australian, Czechoslovakia, etc. QRP clubs for their newsletters. Is there a cure for this - HELP!!!

That brings us to the question of what services the International QRP Club newsletters (like the G-QRP Sprat and ARCI QRP Quarterly) should offer and what services should the regional QRP

club newsletters offer. My thoughts are that the International club newsletters should cover the activities that the regional clubs are not capable of covering, like QRP contest management, major QRP events (Dayton and Dallas hamfests) and member news that is of interest to all. Additionally, the International QRP Clubs should pick the best tutorials, the best equipment reviews and the best technical projects that come from the regional QRP clubs and publish these along with additional comments from their technical review committees.

The Internet QRP List is frequented by some famous ARCI board members as well as some more famous regional QRP club officers. So this would be a good opportunity to give them some positive feedback on the great jobs the QRP clubs are doing with their newsletters and your thoughts on the direction they should be taking. Also, it should be recognized that the publishing of club QRP newsletters is an effort of many unpaid, enthusiastic QRP volunteers and for some a true love of the hobby with the desire to spread the "word". There should only be a desire to praise these volunteer efforts - let's save the critical reviews for the commercial publications.

dah-dit-dah Bob V01DRB/WA6ERB

From ab4el.com Thu May 19 03:23:34 1994
From: Alan Kaul <kaul@netcom.com>
Subject: Re: NE-QRP Newsletter

Bob: Since the biggest costs associated with putting out a newsletter are 1) printing and 2) postage; and since most newsletters are probably written on a word processor and are available to the author/publisher/editor/printer/someone in digital format (probably); be it resolved that we ATTEMPT to get more QRP Newsletters available in text form on either Internet FTP/Gopher/etc., or we get them distributed by QRP-reflector. I'm not trying to short any club on dues, but since most are ostensibly "non-profit" THEN why not distribute on the Internet? Then you won't have to wait for the mail-person to bring you strange mailings from afar(!). Of course it won't always work for schematics, but maybe we could get someone to .gif them anyway. Of course, if you pay by the message, it could be EXPENSIVE to receive your Internet mail.

[<Alan Kaul, W6RCL>] kaul@netcom.com

From ab4el.com Thu May 19 07:46:17 1994
From: James Lyons <jlyons@CAM.ORG>

Subject: Re: NE-QRP Newsletter

On Thu, 19 May 1994, Alan Kaul wrote:

> Bob: Since the biggest costs associated with putting out a newsletter
> are 1) printing and 2) postage; and since most newsletters are
> probably written on a word processor and are available to the
> author/publisher/editor/printer/someone in digital format (probably);
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> but maybe we could get someone to .gif them anyway. Of course, if you
> pay by the message, it could be EXPENSIVE to receive your Internet mail.

>

> [Alan Kaul, W6RCL] kaul@netcom.com

>

>

My vote is against this. I like to receive mail and enjoy reading the newsletter ANYWHERE ... don't have to have a computer in every room of the house!

In fact, I get somewhat puffed when too much of the content appears here first.

Just my dime's worth!

72,

Jim Lyons, VE2KN

From ab4el.com Thu May 19 09:06:27 1994

From: Stephen Trier <sct@po.cwru.edu>

Subject: Re: NE-QRP Newsletter

I think the idea of a QRP newsletter online is an interesting one. I'm willing to volunteer as technical help in making it happen. If there is an editor out there who would like to try it and has questions about what would work, give me a holler.

Stephen

(By day, mild-mannered admin of www.cwru.edu and gopher.cwru.edu.)

By night, 40m QRPer wanna-be! ;-)

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From ab4el.com Mon May 16 10:42:34 1994
From: jpo@acd4.acd.com (Jim Osburn)
Subject: NE602 PADS Part

I have created a PADS Logic schematic symbol for the NE602.
I can email to you a PADS Logic schematic file that includes the symbol.
There are actually two versions of the symbol, one that's a rectangle,
and one that's a triangle.

You can use the merge command to add this symbol to your own library.
The file I can email (ne602def.uu) is uuencoded. When it is uudecoded it
produces a file that is compressed (ne602def.Z). When uncompressed you will
have a file called ne602def. Load this on your PC as ne602def.sch in the
\padsdemo\logfil directory. Fire up PADS Logic and job in ne602def.
Then in the other submenu, hier/lib submenu, you can use the merge command
(F8) to add this part to your usr library.

Please let me know of any errors.

73,

Jim, WD9EYB

From ab4el.com Mon May 16 13:59:38 1994
From: janderson@polycom.com
Subject: Need Manual for Heath IG-102 RF Signal Gen.

I recently picked up a Heathkit IG-102 RF Signal Generator that
works, sort of, at a Swapmeet. Does anyone know where I can get
a manual, or a condensed copy of the manual, for this generator?
I'm more than happy to pay for copying and shipping costs...

Thanks & 73,

Jeff Anderson, WA6AHL
janderson@polycom.com

From ab4el.com Tue May 17 21:24:57 1994
From: Bob Smith <0005512847@mcimail.com>
Subject: New S&S ARC 4 Kit

Got this in the mail the other day.
What do you all think??

S&S Engineering ARK4 Kits
14102 Brown Road
Smithsburg, MD 21783
301-416-0661
Fax 301-416-0963

5.5 x 1.5 x 7.5"
25 oz
Tuning range 7.000-7.150
Tuning steps 1 kHz synthesized +/- 500Hz fine tune
Mode CW
Sensitivity .4uv (10db (S+N)/N)
Output power 3-4Watts w/ 12V supply
Current consumption 1.1A TX .15A max RX
Input Voltage 11-15V

Headphone jack - no speaker output
On PCB design ALL componants (including controls and jacks) connect
to the board (this also include the optional keyer componants)

The tuning is the same micro switches as on their ARK40 rig.

Pricing
TX kit 99.95
RX add on 49.95
200Hz audio filter kit 9.95
Fine tune option 12.95
Keyer option 39.95
TX/RX Kit 144.95
TX/RX Kit w/ all options Except Keyer and case 169.95
TX/RX w/ all options except keyer - 199.95
TX/RX assembled and tested 269.95

From ab4el.com Thu May 19 18:17:07 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: NN1G Trouble, Help!

Hi Gang,

I need help. I've finished my NN1G kit and the receiver seems to work fine although the 10.7 MHz IF cans had to be tuned to its limit to get the proper passband. My problem is that one I connect the RF in through the T-R switching network, the signal virtually disappears. For some reason, the low pass filter, or the resonant network, or the diodes are not passing the RF to the RX board.

I wound L5 and L6 as per instructions, 11 turns on the T-37-2 (red core I think). with the 150pF, 330pF, 150pF pole capacitors. C21 is not used as this was a 20 meter circuit. IN4148 diodes all check out for polarity and connections. L7 wound as 32 turns on T-37-2. C20 does not have much effect, other than peaking slightly at the limits. Feeding RF at a pre-filter point does not help so I am suspecting either C20 or the L7, more likely L7.

Does anyone else have this problem or have any experience that can help me get the NN1G into working condx? Any advice will be greatly appreciated. How can I check if I got L7 right? T-37-2 is the RED core isn't it?

Help!

73,
Daniel

--

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+-----+-----+
| Daniel Wee | daniel%pandora@csah.com | ** Man needs more
| UUCP1.12b | daniel.wee@f516.n600.z6.fidonet.org | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel | needs a new heart! **
+-----+-----+
```

From ab4el.com Mon May 16 14:07:09 1994
From: "JEFF M. GOLD" <JMG@ntech.edu>
Subject: Oak Hills Classic

Well Sunday I got my Oak Hills Dual bander going.

The directions and actual building were a really relaxing and enjoyable experience. There were NO ambiguous directions including the alignment. The alignment was a little tricky and I may have one or two very minor readjusts to do. I found only one minor error in a diagram (but text directions were completely correct) and Dick is going to change that.

The whole kit was top grade. Needed to be built slowly.. not too much fun to debug once you are done with the plated thru boards.

The bands were in bad shape yesterday, but had no problem on either 20-40. Had a nice 40+ minute chat on each band, worked some

contests (not sure which ones, but they seemed content with 599 and a serial number). Worked Netherlands.

The receiver seems to work extremely well. The QSK is GREAT, the Curtis keyer works .. well like a Curtis Keyer (no complaints). The power is adjustable from the rear down to about nothing. Mine putting out a nice clean 5+ on 40 and little under 5 (but right about at it) on 20 meters. The rig has a very nice sidetone that is adjustable (I like a very low sidetone level when I operate for long periods of time). The rig has separate jacks for straight key and paddles (if you have keyer option).

The rig doesn't have a built in speaker.. after a long period with the headphones (I am not a headphone person) I simple plugged my amplified speakers into the headphone jack and it worked great). The audio seems to be enough to drive a speaker (i wired one or two into the jack and seemed ok).

Got very good reports on my signal and it sounded great listening to it on my kenwood 850.

If you have built before .. this is one of the best/most fun kits I have ever done.

The only minor downside is that although the directions were extremely clear, there is no circuit descriptions...I am not a whiz with schematics.. when trying to figure out what I was really doing in the alignment and how the rig worked it took me a while.. but other may just be able to look at the schematic.

I talked to Dick at Oak Hills and told him to think about including circuit descriptions.

73

Jeff, AC4HF

From ab4el.com Mon May 16 14:13:49 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: Oak Hills Kits

* ok the usual disclaimer.. I am positively in no way connected with Oak Hills other than having built a fair amount of their kits.

When I called Dick to talk about the Classic he said that in an effort to stimulate business he has lowered kit prices to the following:

- 1) Classic Dual Bander from \$269.95----\$189.95
- 2) Spirit from \$219.95----\$169.95
- 3) QRP Explorer from \$159.95----\$119.95
- 4) Sprint from \$119.95 to----\$89.95
- 5) QRP wattmeter from \$89.95----\$79.95* Dick has told me he made a very minor mod to the circuit and it will now measure in the 2 meter range.. if you have one already you can easily modify yours
- 6) Switched Capacitor Audio Filter from \$69.95----\$49.95

Like I said, not connected I believe the Classic, the Spirit and the Explorer are the best buys on the kit market today.. I kinda had to ask him 2 or three times how he could afford to do it.. his cases and panels cost a bunch, and all the coils are pre-wound.. the diagrams with the Classic were done by a guy who use to do them for Heath.. cost a bunch.

73

Jeff, AC4HF

From ab4el.com Mon May 16 17:28:17 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: OH Classic

for info:

Classic:

Dual band.. 20+40
superhet with diode ring mixer and pre-amp
High side LO injection on both bands for cleaner sig
4 pole crystal filter
4 pole audio filter
agc
8:1 VFO
RIT with Center detent
Sidetone oscilloator
QSK

\$29.95 for optional Curtis Keyer (think I forgot this in last)

Oak Hills Research
20879 Madison St.
Big Rapids, MI 49307
(616)796-1460

Sorry, should have included this in original message.

73

Jeff, AC4HF

PS think there is a 30 day wait on the Explorer kits.. haven't seen one of these yet

From ab4el.com Tue May 17 10:01:42 1994
From: B61395@awtims.fe.anlw.anl.gov
Subject: OHR Explorer -- Anyone Built It?

Hi. Has anyone tried the OHR "Explorer" single band superhet xcvr kit yet? I would be interested in any impressions the group might have of this kit. Especially since I can buy one right now for about the same price that I paid for a "Sprint" last year. Thanks and 73E-2, Bill, KR8L/7

(wparmley@anl.gov)

From ab4el.com Tue May 17 16:19:19 1994
From: Bob Gobrlick WA6ERB <70466.1405@CompuServe.COM>
Subject: OHR Kit Sale

TO: >INTERNET:qrp@think.com

Oak Hills Research Kit Sale

I was shocked to see Jeff Gold's AC4HF posting on the sales prices of the OHR kits. Is Dick over at OHR going out of business? Dick wasn't at the Dayton QRP hospitality suite this year - is he ill? Is the QRP kit business not profitable? Has the New England QRP club \$40 transceivers destroyed the QRP kit market for honest business people? Was Jeff hallucinating after getting his new OHR Classic dual bander working?

Forget those worries I'm going to get on the phone and buy a Classic Dual Bander and maybe an Explorer. Those prices quoted are great.

I've built the 40 meter Sprint, the QRP Wattmeter and the Switched Capacitor Audio Filter and they have been the best

commercial kits that I've built (I'm trying to remember my last Heath HW-9 I built). The components in OHR kits are of very high quality and in general everything - instructions, cabinet finish, pc boards, is first class. Also the designs are first class. I was impressed by the upgrades that OHR made to the Sprint, which started out life as a copy of the classic W7EL DC design. Does Dick have Doug Demaw on his payroll? So all I can suspect is that Dick is having a cash flow sale offering since his prices must be near cost.

By the way (and maybe Jeff can answer this) does the OHR Classic Dual Bander have rf amplification prior to the ring mixer (I suspect a Minicircuits TUF-1) for each band? Also does anyone have any comments on a front end using an rf amp and a ring diode mixer vs the simpler (cheaper) gilbert cell type mixers (NE-602 etc)? I remember that my old Atlas 210X used a ring diode mixer (individual components) (no rf amp though) and I thought it had a decent front end considering the simplicity.

So what's the scoop? I'm sure the fast laners on the Infobahn QRP List will know the real story behind this road kill sale (boy that doesn't sound good but I liked the syntax).

Bob V01DRB/WA6ERB

From ab4el.com Wed May 18 06:26:31 1994
From: Bob Gobrnick WA6ERB <70466.1405@CompuServe.COM>
Subject: OHR Kit Sale

TO: >INTERNET:qrp@think.com

OHR Kit Sale

As a follow up to my message on the QRP List I called up Dick Oak Hills Research to verify Jeff Gold's AC4HF posting of the OHR kit sale prices (Jeff - I didn't believe it either). Well believe it - Dick said that he just wanted to move some inventory since things have been slow. He thought it would be a good time for a sale. I placed my order for a OHR Classic Dual Bander and matching Curtis keyer.

I talked to Dick about his units and I mentioned to him about his use of an rf amp and Minicircuit TUF-1 diode ring mixer in the Classic and the Spirit units vs his use of the NE-602 in his new Explorer. He said that the front end in the Classic is the quietest receiver that he's put out to date. It is a little more expensive than the NE-602 front ends.

I also talked to Dick about his wattmeter. As Chuck K5FO posted a while back her on the QRP List OHR has a new 2/20/200 watt unit coming but the boards are not in yet. From what I understand his wattmeter can be bought assembled (forgot to ask the price). And finally he said that you can extend the operating range of the wattmeter by 1. Reversing the T1 leads which requires adding some extra length to the leads, tucking them close to the torroid and cross wiring them in the opposite holes, 2. Dressing all cables away from the back of the cabinet where T1 is and 3. Reversing the meter connections. I doubt if I'm going to mod mine - what do I care what the SWR looks like when I have the ducky on my handheld write next to my "noodle" when I'm talking - I can use that extra RF to "energize" me.

So that's the "scoop" direct from the scooper.

73 Bob V01DRB/WA6ERB

From ab4el.com Wed May 18 08:44:12 1994
From: Gary M Diana <gmd@adm01.rfc.comm.harris.com>
Subject: OHR Market Correction

Hello All -

First let me say that I have purchased a couple kits from Oak Hills Research (OHR), but in terms of money, I have probably ordered more parts than kits.

If a complete kit is what you are after, OHR is a good way to go. No skimping, and the cabinets are really nice. I like nice cabinets. And you get product support... dick is very accessible by phone (my experience anyway).

BUT... \$120 for the w7el designed direct conversion single band radio? I think OHR has inched its prices up to a point where demand is not reaching the desired supply rate. Club kits are likely the cause of this effect. Another reason might be competition from other kit companies (624 kits, dmpk, s&s, etc). One last thing, many of the kits you can buy from the kit companies are already in the public domain... so in an absolute sense, if you want the technology you can read the original article and build the damn thing. The amount of proprietary, DESIGNED by the kit company products is small, so the buyer in many cases has the option to obtain the design from other sources. (So, what do you think that w7el wattmeter article from QST is worth to you? I bet more than the newsstand price of 1 QST!).

I would not want to see OHR go under, so this market correction in prices is a good thing.

73, gary n2jgu

From ab4el.com Wed May 18 09:35:46 1994
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: OHR Market Correction

> First let me say that I have purchased a couple kits from Oak Hills
> Research (OHR), but in terms of money, I have probably ordered more
> parts than kits.

The understatement of the year guys!!

(stuff deleted)

> BUT... \$120 for the w7el designed direct conversion single band radio?
> I think OHR has inched its prices up to a point where demand is not

(stuff deleted)

> 73, gary n2jgu

>
>

To put things in perspective, I built 3 spider transceivers. They cost about \$20 each, cabinet included.

I built 2 nn1g transceivers. They cost about \$25.00, cabinet included. So why would I want to spend \$120 or whatever for one of the oak hills things when I can roll my own, have a little bit more pride because I rolled my own, and not bitch because some sorry sole forgot to include a resistor. I don't know if you guys have all sorts of money, but I sure don't, and unless there is something unique for the \$, it just don't make sense.

My personal slant is that if you want to sell something as a kit and make a few bucks for the club .. fine, but if you want to sell me a kit, you better make something beyond my capabilities either electronically or mechanically packaging wise. Or I have to be in a lazy mood with excess money. Ok so that happens once in a while, and I do like kits, ok the lazy part comes more often than I care to admit.... But the \$ part seems to override the lazy :-).

73 Brad WB8YGG

From ab4el.com Tue May 17 18:48:48 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: OHR Pricing

Gang,

Don't panic. OHR is not about to go out of business.
Don't start rumors. It's just a sale. :-)

The prices quoted by Jeff Gold, AC4HF, are correct and are currently in effect. They are deals that you just can't pass by. I've built the Sprint, Spirit, Audio Filter, Wattmeter, and other kits from OHR. They are by far the best in quality and performance.

I was running the Spirit on 40M at 2W for the longest time until I jumped down to the 950 milliWatt level for the challenge. And it is a challenge, but fun.

I was given the pricing earlier last week, but asked not yet to publish them and I very quietly held on to them. :-) I'm about to get ready to fire up the Classic this week. You've seen Jeff's review and progress reports.

I'm anxiously awaiting the Explorer.

Doug DeMaw is no longer associated with OHR.
Dick Witzke, owner and rig designer at OHR, KE8KL, does a great job of designing and laying out his rigs.

I can take the schematics for the classic and draw a block diagram in ascii and put a PostScript file on Think.COM for the basic layout, if you'd like and post here. A technical review if you like and want to see the bandwidth of same.

Ooops, lost it off my screen, but the poster raised a good point about competition from club projects.

If an individual had a choice between a \$50-80 club project vs. a \$150-200 commercial kit with a better performance figure, I'd think that money would probably be an issue in a lot of cases. Then there are people like me that will do both and some that will opt for the higher level of receiver performance. We could speculate on this all night and day. There is no clear answer. That's why people do market analysis.

I know for a fact that there are over 800 (that's not a typo) NN1G rigs in various stages of being built and operational. We're looking at about 100 of the NE-QRP kits, 100 NorCal 40's, and the list goes on. By the way, I made a mistake in my newsletter and quoted the \$49.95 price for Dan's Small Parts NN1G kit. It is now \$59.95 plus shipping and handling. Between Danny and FAR Circuits, the number of NN1G rigs has probably now outnumbered the total number of kits that Heath sold. :-) That would be an interesting number --- the number of HW-9s, HW-8s, HW-7s, HW-16s, etc. they made and sold.

Does anyone have an idea how the economy is effecting amateur radio? I've heard figures that sales for the imports are down 50% or better. This is an unsubstantiated figure and I doubt that we are gonna get the true figures from anyone on this planet. :-) What with the combo of economy and sunspot problems, there is no surprise here. The thing that scares me is that everyone is gonna get off the air and get in front of the screen and ham over the internet. :-) Then the signal to noise ratio will really go down.

Soapbox off. dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Tue May 17 19:56:29 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
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Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Tue May 17 21:07:22 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: OHR Pricing

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Soapbox off. dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Thu May 19 13:53:21 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: Online Newsletter

Hi,

Good idea to have some on-line access to these articles. Not to say that it should supplant print but if need be, I volunteer to make it happen. :) I know I will benefit. My QST April just arrived postmarked 24 March 1994 and about 30 pages torn. Same thing with my friends QST, cover page torn into 3. Electronic distribution, yep, that's for me.

73,
Daniel

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+-----+-----+
| Daniel Wee | daniel%pandora@csah.com          | ** Man needs more
| UUCP1.12b  | daniel.wee@f516.n600.z6.fidonet.org |  than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel              |  needs a new heart! **
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From ab4el.com Fri May 20 02:41:55 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Online Newsletter

There has been some talk about an Internet QRP newsletter. Guys, wouldn't that be a little redundant. I think of what we have as a newsletter. It is better reading than the newspaper for sure. At the present there are over 525 subscribers to QRPP, and I would imagine that over 80% of them are not on internet. Those of you who are on sometimes forget that most of the ham community is not on this list. QRPP takes up at least 2 to 3 hours per day of my time, and I just would not be interested in putting out an electronic edition.

I would also say that at \$5 per year for 4 issues, we are not making any money at all. In fact, I spend over \$150 per month on unreimbursed phone calls that are related to getting information for QRPP. I pay for every call to the internet. Don't get me wrong, I am not complaining, publishing QRPP is a small way that I can contribute to the QRP community. I enjoy it and am having a ton of fun. It is what keeps me sane from all of the everyday job pressures etc. But, for me to do both the printed version and an electronic version is just not feasible. By the way, it might get expensive, as the last issue was about 800K of info in the Pagemaker file, and that would take a while to upload and download.

If someone else wants to undertake the job, I would fully support them. But, I am saying that I am not interested. Have a good week, and build something

this weekend. 72, Doug

From ab4e1.com Fri May 20 08:13:01 1994

From: James Lyons <jlyons@CAM.ORG>

Subject: Re: Online Newsletter

On Thu, 19 May 1994, Doug Hendricks wrote:

> There has been some talk about an Internet QRP newsletter. Guys, wouldn't
> that be a little redundant. I think of what we have as a newsletter. It is
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>

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> I am saying that I am not interested. Have a good week, and build something
> this weekend. 72, Doug

Doug,

I just have to express heartfelt thanks for all the work you do and to assure you that I have sent for your newsletter and look forward to reading it (and probably re-reading it) anywhere it can be carried ... at the breakfast table, in my easy chair, in bed, on a bus ... wherever.

Internet is great (for those of us who have it) for discussions, really hot items etc., but I want to have the convenience and pleasure of reading a document. Count me in for the traditional newsletter. But I'll be snooping around here as well!

72,

Jim, VE2KN

From ab4el.com Thu May 19 20:01:25 1994
From: BOB@psychnet.psychol.utas.edu.au
Subject: Re: Online newsletter.

I may be able to help out in by providing space on my ftp server here for an ftp-able newsletter. The only possible snag is just how much disk space it might grow to use!
However I guess that the disk space issue won't arise for quite some time so if this seems a good idea please let me know.
At present I have Jeffs QRP ccts file there.

The other possibility is a WWW (World Wide Web) server although this might not be as universally accessible as ftp.
The advantage of WWW is that it readily supports inline graphics but the ****big**** disadvantage is that it is very hungry of network bandwidth.....consequently very slow over modem links.

Thoughts, comments....?

73s

Bob VK7RD

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| email:          bob@psychnet.psychol.utas.edu.au |
|
| postal:         Robert Reid, Dept of Psychology |
|                 University of Tasmania          |
|                 GPO Box 242C, Hobart, Tasmania  |
|                 | Tel: 61-02-202242             |
|                 Australia. | Fax: 61-02-202883 |
|
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From ab4el.com Thu May 19 16:20:48 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: ONLINE QRP NEWSLETTER

Gang,
If we create an online QRP newsletter I'll gladly contribute information

on collecting components without cost: dumpster diving at your nearest university campus (especially behind the computer center and engineering buildings), 'bathroom' cardboard coil forms, etc.

.73,
Jeff NH6IL

From ab4el.com Thu May 19 14:52:19 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: part help

HI,

wondering since some of you seem to have vast hordes of parts, does anyone have a 4.7 uh 7.96 MHz 70 Q Coil, 10K type... Toko part # is BTKANS-9443HM, Digi Key # TK415 that they would be willing to sell me?

I had built a prototype 624 Kits Gary Breed 40 meter transciever. Pat Bunns had made some modifications to get increased band width. I found the transceiver didn't work well and put the receiver and most of the transmitter back to specs.. works real well except seems to have a bit of SWR problem. The only thing I think that is causing this is that the 4.7 uh coil in the TX is 100Q. I ran out of the other coils.. been waiting to get enough of an order together to order from DigiKey.. but thought someone might have one they are willing to sell.

thanks

73

Jeff, AC4HF

From ab4el.com Mon May 16 17:29:22 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Photos

In the photos that Steve has kindly taken and posted:

1. That is the only time you will see me with a microphone. :-)
2. In formum.{jpg,gif} the two guys center front are
(in green jacketed) Cam Hartford, N6GA, contest chairman for QRP ARCI
(in blue sweater) Dave Little, AF5U, contest committe member

FYI,

dit dit

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Thu May 19 10:47:12 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Pictures

Guys, I finally learned how to ftp, and I downloaded the pictures that Steve Hideg did from Dayton. Wow am I impressed, and I have an idea. What if we got Steve to digitize pictures of all of the QRP rigs. It would be nice to have a format, say something like.

1. Front and right side view.
2. Back and left side view.
3. Top view with cover off looking straight down.
4. Bottom view with cover off looking at the board, solder side.

If we could get Steve to agree to it, those of you who have the various rigs and are good photographers, could take the above 4 color shots, send them to Steve, and he could put them on one file, divided into 4 quadrants. Then, when a newbie comes on the net and says, what is a HW-8? We can direct him to the ftp site, and he can download the picture. Plus it preserves it for posterity, and makes Steve Hideg famous. If you like the idea, send Steve a message encouraging him to do it. Flatter him, he deserves it for the great job that he did with the Dayton pics.

I can foresee a great resource of every QRP rig ever made. We could have a commercial section, kit section, and homebrew section. Great resource for the future. How about it?

By the way, the picture of the three presenters was an accurate shot of how tall Chuck Adams is. Jim Fitton and I are both about 5' 8" tall, and Chuck is 6' 7", and the short one in his family. Someone else asked why the battery was upside down in the picture of the NorCal 40. Why, we were listening to see if we could hear New Zealand or Australia! (Seriously, the dummy (me) that set it up, set it upside down).

Have a good week, and don't forget to have some fun in life.

72, Doug, KI6DS

From ab4el.com Thu May 19 18:17:13 1994
From: "W. Daniel" <pandora!daniel@Think.COM>
Subject: Pictures of QRP rigs

Hi Again,

Just wanted to say, what a good idea Doug hit upon, of setting up a catalog of pictures of QRP rigs. I for one, would like to have look at some of the rigs and kits talked about here and am too far to visit.

Not only that, we could compile reviews along with the pics and could end up with a pretty nice catalog. People like Jeff AC4HF has written so much, his work alone could make a good start, plus all those others who can chip in.

Now, if only someone could get this thing rollin', I might even go buy a color scanner to help out in the scanning, if you will bother sending me the pics. Frankly, the JPGs left me drooling for more from this half of the globe.

73,
Daniel

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+-----+-----+
| Daniel Wee | daniel%pandora@csah.com          | ** Man needs more
| UUCP1.12b  | daniel.wee@f516.n600.z6.fidonet.org      | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel                  | needs a new heart! **
+-----+-----+
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From ab4e1.com Fri May 20 09:41:35 1994
From: hideg@qmserv.erim.org (Steve Hideg)
Subject: Re: Pictures of QRP rigs

Reply to: RE>Pictures of QRP rigs

Okay.

I am willing to scan and upload.

But we need a good ftp site (with disk space).

I'm glad everyone seems to like my photos.

Does anyone have an idea for an ftp site? I'm certain the sysadmins here at ftp.erim.org would balk at such an idea.

(To Daniel Wee: I hoped that the Dayton 94 scans would "get this thing rollin'")

Keep the ideas coming.

72!

--Steve, N8HSC
hideg@erim.org

From ab4el.com Mon May 16 15:42:49 1994
From: Bruce Walker <bruce@Think.COM>
Subject: posting digests to rec.radio.amateur.homebrew?

Someone suggested that I post the daily QRP Digests to the Usenet newsgroup rec.radio.amateur.homebrew, and I'm considering doing so on an experimental basis.

How do you feel about it? If you have strong thoughts one way or another, reply to me personally. It would greatly increase the readership of the mailing list, and would probably generate enough publicity to increase our subscribership considerably. There would also probably be contributions from others on the net who are not on this list.

I am **not** proposing gatewaying the newsgroup articles into this list!

--bruce WT1M

From ab4el.com Thu May 19 13:48:33 1994
From: Bruce Walker <bruce@Think.COM>
Subject: QRO purge

Your humble list administrator has become inspired. I just sold my QRO gear (meaning 100W ICOM rig, big MFJ tuner / wattmeter, MFJ1278, old key). Based on reviews of various products on this list, I had a friend pick up a Kent paddle key kit at Dayton, and I got a CMOS Superkeyer kit from Idiom Press. Those are now built, and I'm left with them, the HW-9 and the HW-9 tuner. I'm in the queue for a NE-QRP 30/40 kit, and I have spousal approval for the Sierra and the OHR Wattmeter. I'm not a leader, I'm a follower :-).

--bruce WT1M

From ab4el.com Mon May 16 15:43:41 1994
From: hideg@qmserv.erim.org (Steve Hideg)
Subject: QRP Dayton '94 Pictures

Subject QRP Dayton '94 Pictures

I have scanned and uploaded some photographs I took at the QRP hospitality room on Friday and the QRP Clubs Forum on Sunday at the 1994 Dayton Hamvention.

The files are in GIF (8-bit colour) as well as jpeg (24-bit colour).

They include photos of Jim Fitton (W1FMR), Doug Hendricks (KI6DS), Jim Cates (WA6GER), Chuck Adams (K5FO), Bill Kelsey (N8ET), Jim Kearman (KR1S) and others.

Also, there are pictures of the NE-QRP 40-40, RadioKit's QRP-20, the ARK4 and ARK40, and the NorCal 40 and NorCal Sierra.

To access these images, ftp anonymously to:

ftp.erim.org

Change directory to:

hideg/qrp/dayton94

In there you will find a README file with picture captions, a gif directory and a jpeg directory. Note that both directories contain the same images, just different formats.

All pictures are copyright 1994 by Steve Hideg. You may use these pictures in publications (newsletters, etc.) with my permission. Please contact me if you wish to do so.

72!

--Steve Hideg, N8HSC
hideg@erim.org

From ab4el.com Wed May 18 14:39:31 1994
From: MIKE BRYCE <73357.222@CompuServe.COM>
Subject: Re: QRP Digest V0 #100

[This came to me from Mike...I'm forwarding it to the list. --bruce WT1M]

Where's my April QRP Quarterly?

That's a good question. In fact, I'm not sure I have the answer. Right now, we know the printer still has it in Texas.

The editor supplied the necessary artwork in plenty of time to meet the April mailing. So, the club did the next best thing..

WE FIRED THE PRINTER!

Yup! He's done. The next issue of the Quarterly will be done by a different (read reliable) printer.

Mike WB8VGE Membership QRP ARCI

From ab4el.com Tue May 17 16:20:29 1994

From: Bob Gobrick WA6ERB <70466.1405@CompuServe.COM>

Subject: QRP Rcvr Front Ends

TO: >INTERNET:qrp@think.com

QRP Project Receiver Front Ends

I've built a number of QRP kits (both club and commercial) over the last year or so and I'm now getting a little more refined (?) in my choice of "new" projects. I've been happy with the development work done by many QRPers on stable analog vfo's (although the new S&S ARK-4 digital vfo has caught my eye), decent transmitters, and decent relayless QSK circuits. The receiver portion of the rigs though has me looking for something more.

There's been an influx of great club kit designs (NN1G, NORCAL 40 & Sierra, NE-QRP 40-40) based on the inexpensive NE-602. Some designs are better than others depending on the amount of front end protection to prevent overload. Are there better designs? We all know there are. But can they beat the NE-602 for simplicity and cost? Although I have not seen the schematic for the Oak Hills Research Spirit or Classic the specs say that the front end has an RF amp and diode ring mixer (probably a Minicircuits SBL-1 or newer TUF-1). Is this a better performing front end and at what cost over the NE-602, especially on 20 meters where the front end noise figure and gain distribution need to be considered.

I've compiled a little list of front end designs that I know about and some that I don't know about. By the way I'd like to just stop at this point and commend the designers (like NN1G and N6KR) who verbally walk-through their circuits and the reviewers who describe the circuit of the unit they are evaluating. I know these descriptions help me understand the unit a lot better than a bunch of slick photographs. I used to criticize the technical review policy of CQ magazine when they spent pages describing the circuitry of a complex rig to boredom, but now I really do miss a

circuit description especially in a simple QRP rig which I know has to have some compromises. Anyway back to my list:

NE-602 or similar gilbert cell mixer front ends: NN1G Superhet, ARCI - W1CFI surface mount SL6440 DC xcvr, NORCAL-40, NORCAL Sierra, NE-QRP 40-40, MXM Simple RX/TX Superhet, A&A K9AY MC3362 xcvr, G-QRP Sudden Receiver, Neophyte Receiver, Ten-Tec kits

Diode Ring Mixer: Oak Hills Research Sprint DC Xcvr, OHR Spirit and Classic Dual Bander - rf amp and mixer, OHR Explorer (?), S&S ARK-40 - rf amp (?) and mixer, ARK-4 (?), Tejas RF Technology Backpacker II DC xcvr.

Others: Index Labs QRP Plus (does anyone know the front end of this rig and filtering (xtals plus SCAF?)

Has anyone compared the front performance of these rigs and tried to evaluate a cost benefit in complexity of design and power budget? I'd be curious to hear what design approach the Index Labs QRP Plus took to get all that performance with such a small power budget.

Another area of review is the gain distribution and audio stages of simple QRP rigs. I noticed a good article by Stan AK0B in the North West QRP newsletter on the use of a more expensive (how much more ?) MC34119P audio chip over the standard noisy LM-380 and LM-386 chips. Anyway use this chip? How does it perform?

If you would like, keep this as an open forum for comments since it may be good material for some of the QRP newsletters represented here on the Internet QRP List.

Thanks 73, 72 Bob VO1DRB/WA6ERB

From ab4el.com Tue May 17 17:07:54 1994
Subject: Re: QRP Rcvr Front Ends
From: "John F. Woods" <jfw@ksr.com>

I don't know if they're available as kits, but the 18/10 meter receiver in recent Handbooks uses a dual-gate MOSFET mixer (no preamp), as does (I think) the high-performance W1CER (=W1FB) receiver described in Solid State Design. I don't know the relative performance, but the circuitry in each is relatively simple (complicated chiefly by an abundance of filter components).

> I noticed a good article by Stan AK0B in the
> North West QRP newsletter on the use of a more expensive (how

> much more ?) MC34119P audio chip

Newark's current catalog lists them at \$1.20 each (with a \$50 minimum order), though their catalog is frequently way off on prices. I don't have its data sheet handy.

From ab4el.com Tue May 17 09:41:55 1994
From: Bob Smith <0005512847@mcimail.com>
Subject: QRP Rig survey

Hello group,

Been monitoring this group for a while and I am very impressed with the expertise here.

Interested in getting a QRP rig.

There are so many out there, I'm interested in your opinions.

Requirements

5W out

Single band OK - easy mod to another band a plus

No bigger than the MFJ rigs

Built in keyer - or room for one

Speaker output

Kit very OK - if only need a calibrated rig to align

Solid state TR

Thanks in advance for your opinions!

Bob Smith
5512847@mcimail.com

From ab4el.com Sun May 15 22:11:49 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: QRP-NE & 40/40 kit.

Some have asked about the QRP-New England Club and the 40/40 CW transceiver kit offered by the club. I now have a file called "info.kit" containing this information, and another called "app.ne" containing a club application.

If you are interested, contact mvjfm@mvubr.att.com
and I will e-mail the information to you.

73/72 Jim Fitton, W1FMR, QRP-NE, mvjfm@mvubr.att.com

From ab4el.com Mon May 16 16:39:02 1994
From: mvjff@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: RE: QRP-NE & 40/40 kit.

Hi Mont, (and Inet)

Re: QRP-NE 40-40 kit transceivers.

The first 50 kit rigs sold out very quickly, and new parts are now being ordered for another run of 50. We are hoping to have them available by mid-June, barring delays by suppliers.

Get ready for the QRP-AFIELD event on Sept. 17. Hundreds of NorCal-40s, MFJ 9040s, 40-40s, and NN1G kits will be operating from the field, and parks etc...on batteries, for a fun filled, 6 hour portable operating event.

Thanks

Jim W1FMR

From ab4el.com Thu May 19 00:05:49 1994
Subject: QRPP from Norcal
From: Jeff McLeman <mcleman@nthead.zso.dec.com>

Well, kudos go to the NorCal group for another FB quarterly. A great issue!

Keep it up folks!

Jeff

From ab4el.com Mon May 16 18:21:54 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: QSK

Gang,

I'm with you. No relays. If it has a relay, it ain't QSK.
Go TenTec Go.

The first rig I used after moving to Midland TX in 1960 was a Heath Apache with a National NC-300. Why one of the knobs off the NC-300 rcvr weighed more than today's QRP Rigs. :-). Well, almost. The two components above together weighed in more than 120 pounds total and I ran them for nine months (my senior year)

on a card table with a vibroplex bug (which I still have in a plastic display case). I used two 1N34 diodes back to back across the receiver terminals with a 125V 5W bulb in series fed in parallel with the transmitter to the antenna. The first solid state QSK circuit. Worked great. In metal BUD box to prevent (well reduce) TVI.

The NN1G, NorCal Series, MXM Industries, OHR Series, and other rigs (didn't mean to leave out TenTec) without relays are great. The A&A rig, the RadioKit, and others with relays won't stay in my shack for long (didn't). The high dollar ICOM and Yaesu rigs with relay switching are painful for me to operate. I don't want to hear anything click in the shack except for the contacts on the paddle. :-). Relays wear out and are subject to fast failure after long periods of use or disuse. When looking at a new rig, the first question I'm going to ask is "How many relays does it have?".

My two cents worth. It ain't QSK if it has relays. Especially above 30 wpm.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Mon May 16 20:15:26 1994
From: Stephen Trier <sct@po.cwru.edu>
Subject: Re: QSK

OK, relayless QSK sounds nice. Now, for the homebrewers out here, what is the right way to do solid-state QSK? I see plenty of QSK circuits in the books, but no comparison of their strengths and weaknesses. What's the secret to sequencing? Should one diode-switch or just use a limiting scheme with parallel transmitter and receiver?

Stephen

--
Stephen Trier
sct@po.cwru.edu
KG8IH

From ab4el.com Mon May 16 22:42:01 1994
From: rohrwerk@holonet.net

Subject: Re: QSK

On 05-17-94 sct@po.cwru.edu wrote to qrp@Think.COM:

> Now, for the homebrewers out here, what is the right way to do
> solid-state QSK? I see plenty of QSK circuits in the books, but no
> comparison of their strengths and weaknesses. What's the secret to
> sequencing? Should one diode-switch or just use a limiting scheme
> with parallel transmitter and receiver?

I personally go for the diode switch. 1N914's work well at 5 watts. The weakness is the diode current required if you're concerned for low drain portable work on batteries. They say about 20 mA is enough, but I had to use about 50 mA current at my location to reject a 50 kW broadcaster about 5 miles away. (Guess I could switch in another resistor for portable work to lower the current!)

My switch was taken from QST

Hints and Kinks, July 1990 page 38, with added switching circuitry -- a separate transistor switch (ground a + voltage to ground to turn off) with correct time constants to stay "off" until the keyed CW envelope goes to 0. You may not need the NPN switch depending on what your TX provides -- you could take it off the keyed voltage to your keyed stages. But I needed independent control of timing to tame a "spike" of full RF power on key-up.

```

to DC ground through
TX output transformer -----|<--+-->|--- to DC ground through
(attach before lowpass      |          RX input xfmr
filter)                      )
                             ) RF choke -- 1 mH assures it will
                             ) work as low as 160 meters
                             |
                             > Resistor -- 2.7 k OR LOWER
                             > (150 ohm for me -- half watt
                             > or better)
                             | 100 pF
                             +-----||-----+
                             |          |
                             |          Gnd
                             C \ |
                             |-----+ PNP 2N3906
                             |-----+
                             |          |
                             E          >
                             = 22 uF or as needed > 27K
                             |          >
                             Gnd        |
                                         Gnd

```

+V +V
| |
> |
330 ohm> |
> | / C
Gnd--|<+---| NPN 2N3904
to | B | \----->|-----/|
key +| E
 = 22 uF or as needed
 |
 Gnd

The diode limiting setup seems to work well for folks, and doesn't add current drain. Of course, to reduce loss the classic approach is a series tuned circuit, so that makes it narrowband.

```
* John Seboldt...Mpls, MN...As a ham, K0JD...as a human...well,... *
|                               rohrwerk@holonet.net                       |
*      "Aaaaaahhh.... BAAAAACH!" -- Radar O'Reilly                      *
```

-> Alice4Mac 2.3 E QWK Eval:05Mar94

From ab4el.com Wed May 18 15:21:21 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Radio Shack

Does anyone out there have an address for Radio Shaft, er, Shack corporate HQ?

I got sent an offer of a revolving account for the low, low interest rate of 19.8 percent, and I have a letter all ready to go telling them where they can stick their outrageous interest rates and generally insulting policies.

But wouldn't you know it, the offer letter has no address to return to? You're supposed to take the form to your local store.

Duane

From ab4el.com Wed May 18 16:01:46 1994
From: Randall Rhea <randall@informix.com>
Subject: Re: Radio Shack

=>

=>

=>Does anyone out there have an address for Radio Shaft, er, Shack corporate

=>HQ?

=>

=>I got sent an offer of a revolving account for the low, low interest

=>rate of 19.8 percent, and I have a letter all ready to go telling

=>them where they can stick their outrageous interest rates and

=>generally insulting policies.

One Tandy Center, Fort Worth TX. I don't know the zip, but you can probably get it from packing for a Radio Shack product you have lying around the house.

I got one of those letters too. It includes a certificate for

a \$500 instant credit line at 19.8%. It's no better or worse than the other two or three pieces of mail I get per week offering credit cards at a similar rate. Most of them have no annual fee.

To illustrate why they want you to take this line of credit, let us assume you borrow \$2,000 today at a 19% interest rate. You make only the minimum monthly payment. It will take you 20 years to pay back the loan, and you will pay back \$10,000. The bank makes a cool 8 grand on the deal. Not bad. Remember that next time you take the plastic out of your wallet.

=====

Randall Rhea	Informix Software, Inc.
Sales Engineer	randall@informix.com

From ab4e1.com Thu May 19 21:37:55 1994
From: janderson@polycom.com
Subject: Re: Re: Online newsletter.

Reply:

Great idea - ftp-able newsletter. But what about those of us with minimal internet access (e-mail only)?

73 - Jeff, WA6AHL

I may be able to help out in by providing space on my ftp server here for an ftp-able newsletter. The only possible snag is just how much disk space it might grow to use!

However I guess that the disk space issue won't arise for quite some time so if this seems a good idea please let me know.

At present I have Jeffs QRP ccts file there.

The other possibility is a WWW (World Wide Web) server although this might not be as universally accessible as ftp.

The advantage of WWW is that it readily supports inline graphics but the ****big**** disadvantage is that it is very hungry of network bandwidth.....consequently very slow over modem links.

Thoughts, comments....?

73s

Bob VK7RD

--

```
-----
| email:          bob@psychnet.psychol.utas.edu.au |
|
| postal:         Robert Reid,  Dept of Psychology |
|                 University    of      Tasmania |
|                 GPO Box 242C, Hobart, Tasmania |
|                 | Tel:  61-02-202242 |
|                 Australia. | Fax:  61-02-202883 |
|
|-----
```

From ab4el.com Sat May 14 19:48:45 1994
From: william.redfearn.cmwd01@nt.com
Subject: re:LM-386 Pin Out Needed -

The LM-386 pins are labeled on the MFJ-9020 schematic.

=====
Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
ph.(919) 992-3925 email: cmwd01@nt.com qrl? de N4ELM/qrp

All opinions are my own and do not necessarily reflect the views of
my employer, co-workers or any other person, real or imaginary.

From ab4el.com Fri May 20 20:55:41 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: RF Chokes

Gang: Recall some months ago someone on here who works at an electronic
store was offering free RF chokes to the net. I received mine in the
mail, but what's their inductance? Anyone know?

Jeff NH6IL

From ab4el.com Fri May 20 18:53:09 1994
From: JimN00CT@aol.com
Subject: Scrounging

Brad Mitchell WB8YGG writes:

>I too would like to hear from people on how they make things >inexpensively.

>It seems that we have lost the art of scrounging. Is that because >we have
>grown up, and no longer have the time to rip apart tv's or because >we don't

>want to?

Well I belong in the realm of true cheapskates when it comes to scrounging.

I've gotten some great transistors (a bank of 10 2N3019's) from 50 cent junk pc boards at the local surplus place. Ratsack even has a "junk" bin with good stuff. I got _tons_ of RF chokes from a free TV I tore apart, more varicaps than i can count from old junk radios (old OLD "junque"), and probably my greatest feat was a 2 inch vernier for \$1 at a hamfest. The vernier had a huge knob on it, and I don't think the owner knew what was behind it. I didn't until I got it home. Today I picked up 100 feet of milspec RG-178 teflon jacket (and inner) cable for 75 cents. It pays to scrounge!

BTW, why etch boards?? Build em ugly style--it's faster and cheaper.

72 (+/- 1) Jim N00CT

All that glitters has a high refractive index!!

From ab4el.com Mon May 16 10:05:30 1994

From: janderson@polycom.com

Subject: Seeking Foreign Ham Pubs

Does anyone know how to buy/subscribe/obtain Amateur Radio publications from foreign countries? I'm trying to find sources for magazines (and books) from, say, the U.K., France, Germany, Japan, etc., but I have no idea who to contact. Has anyone else previously traveled down this same path and succeeded?

Thanks for your help!

Jeff Anderson, WA6AHL
janderson@polycom.com

P.S. Is there a Canadian Amateur Radio Publication?

From ab4el.com Tue May 17 01:04:37 1994

From: richard@dnd.icp.nec.com.au (Richard Urmonas)

Subject: Solid state QSK

I have seen two methods used for T/R switching. The first is that used on most commercial equipment (non-amateur equipment).

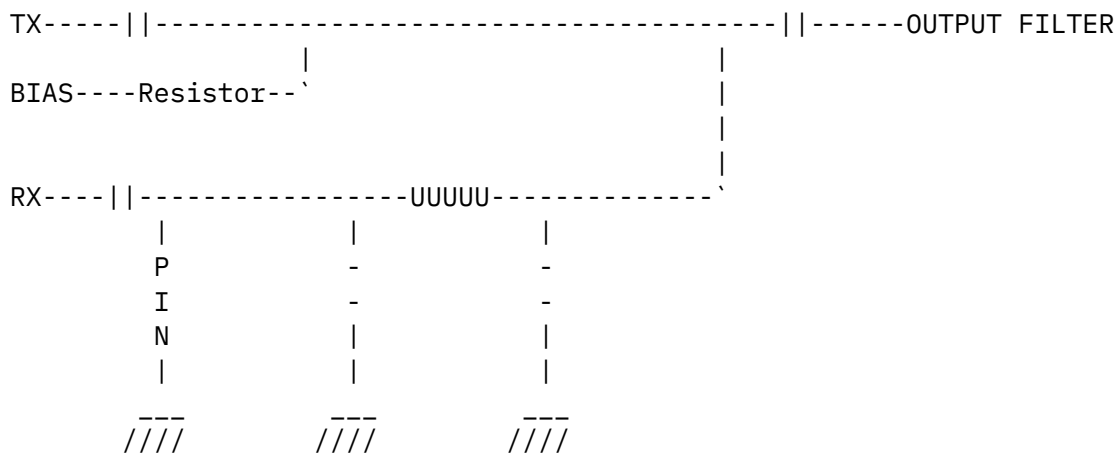
A PIN diode is in series from the TX to the output filter. Also connected to the filter is the RX feed. This consists of a "PI" LC section which simulates a quarter wave line and a PIN diode to ground across the RX input. Bias is applied at the TX end.

In TX bias is applied. The TX PIN is "on" and the TX output is connected. The RX PIN diode is S/C to ground, which the quarter wave line reflects as an O/C to the TX.

In RX the diodes are unbiased or reverse biased (depending on signal handling requirements). The TX is now "disconnected" and the RX input is not shorted.

Note that DC blocking capacitors are required at the TX output to stop collector supply (or similar) from biasing the diodes. At the RX input to stop DC on the RX input. And thirdly at the Output filter to stop DC on the antenna feed.

Here is an attempt to sketch the circuit:



OOPS forgot the PIN diode in the TX to OUTPUT FILTER LINE between the bias feed and RX connection.

The second style I have seen used on some amateur equipment. This uses a high impedance input RX. This allows the use of a small value coupling cap between the TX and the RX. Diodes clamp the RX input from extreme signals experienced whilst TX is on. During Rx the TX final hopefully does not affect the small signal RX signal.

I greatly prefer the first method. I regard the second method as crude and inelegant. It is also not suitable for anything over a few Watts TX

(I would expect things to send smoke signals etc.)

In all cases ensure that any solid state switches are BEFORE AN EFFECTIVE OUTPUT FILTER. This will ensure that any harmonic energy generated in the switch is not radiated.

Hope this is of some help.

73

Richard Urmonas VK3DRU.

From ab4el.com Tue May 17 13:34:58 1994
From: Thang Le <tl@hprnd.rose.hp.com>
Subject: Re: Solid state QSK

I like to offer my observation regarding Pi-filters as mentioned by Richard Urmonas (VK3DRU) (a T/R switching method):

```
>
> TX-----||-----PIN DIODE-----||-----OUTPUT FILTER
>
>          |
> BIAS----Resistor--'
>
>
>          Ind. L
> RX-----||-----UUUUU-----'
>
>          |          |          |
>          P          - Cap. C2  - Cap. C1
>          I          -          -
>          N          |          |
>          |          |          |
>
>          ---          ---          ---
>         ////         ////         ////
```

Where the Pi-filter (L/C1/C2) acts as a 1/4 wave section (inversing the parallel of the Rx PIN diode and the receive input impedance).

As long as L and C1 are chosen to resonnate at the frequency of interest, a short provided by the Rx PIN diode will ground the input to the receive section at the same time present a resonnant LC tank circuit to the Tx circuit.

The Pi-filter is kind of interesting:

```
if          C1 == C2 == C
and          L * C * (omega)**2 == 1    (L and C are resonnant at omega)
```

any load impedance Zout will be reflected at the input of the Pi-filter as

$$Z = L / (C * Z_{out})$$

In the above application, L and C can be chosen such that the receive input impedance is matched with the output filter impedance.

Another interesting special case of the Pi-filter is the back-to-back Pi-filters with identical components: C-L-C in series with C-L-C. Any load impedance is preserved regardless of L and C as long as they resonate at the frequency of interest:

$$Z \leq \frac{\frac{L}{\frac{1}{C} + \frac{1}{\frac{L}{\frac{1}{C} + \frac{1}{Z_{out}}}}}}{\frac{1}{C} + \frac{1}{\frac{L}{\frac{1}{C} + \frac{1}{Z_{out}}}}} \leq Z_{out}$$

$$Z = Z_{out}$$

--

Best regards,

Thang Le, AA6SV
tl@hprnd.rose.hp.com

From ab4el.com Fri May 20 15:46:36 1994
From: KANAMAA%AMGATE%MATRXA@randb.abbott.com
Subject: Spy radio info

From: Kana, Michael (D9CY)
Date: Fri, May 20, 1994 2:27 PM
Subject: Spy radio info
To: QRP Group
Howdy all

Grover mentioned in a previous posting his interest in spy radios. A couple of good sources would be Electric radio and an OSS book which title escapes me. Electric radio has alot of good info on tube gear including info on military radios. I have seen an OSS book in the Military book section of bookstores.

A readily available 'spy' radio is the little Special Forces radio offered by Fair Radio. Basic black, power low enuf for QRP, and a neat little key mounted on the top. Price \$25

Of course, there are other radios that could fit into the spy category including Watkins Johnson/CEI, Nems Clark, Racal, etc. I have a military handi talkie that looks alot like the old BC611 radios. Its Basic Black, solid state - late 60's/early 70's (???) that I'm

working on to get operating. Rumor has it that it was part of a Hamlet Radio set (no, it wasn't used in the Globe Theater....) These sets supposedly were used for Ground/Ground Ground/Air communications during the Vietnam War. It should be neat once I get it running. No radios in a suitcase yet....

7.3E-3 de AA9IL
Mike Kana

From ab4el.com Tue May 17 11:12:27 1994
From: william.redfearn.cmwdt01@nt.com
Subject: Switchable 5/50 watts on the Scout

The Scout 5/50 watt mod Part 1.
After a multi-hour marathon session at the bench this weekend, I have come up with a mod to allow switch selection of the Scout's output power. This basically duplicates the function of the HI/LOW power switch on the Ten-Tec Argosy II.

The mod works by changing the TX ALC levels between a 5 watt setting and the normal 50 watt setting. It is functionally the same as adjusting the RF Power pot but a lot more convenient. The mod is not as efficient as bypassing the PA module, however the drivers on my Scout run about 9-10 watts out when the PA module is bypassed, so the only way to get 5 watts out or less requires adjusting the ALC circuit anyway.

The mod requires 4 parts: a NPN transistor, 10 K resistor, 5 K pot, and a SPDT switch. The mod can be installed without removing any circuit boards. It does require drilling a hole somewhere for the switch.

The Scout 5/50 Watt mod Part 2 involves adding a switch to switch the PA module in/out. During testing, switching out the PA module saves about 1 - 1.5 amps on transmit @ 5 watts. Part 2 requires the Part 1 mod plus a TPDT (triple pole, double throw) switch and 4 coax cables with connectors for the sockets on the modules.

I have not installed the Part 2 mod yet, just tested out the idea. The Part 1 mod is not too difficult, the Part 2 mod does involve re-wiring the coax connections to the PA module and may not be for the faint-hearted (but I may go ahead and do it anyway :-)).

I'm still working out the details for the Part 2 mod and I'll be writing an article to send in to the Quarterly, but if you just have to have this for your Scout, drop me a message and a SASE and I'll send you a copy once I get it all written up.

=====
Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
ph.(919) 992-3925 email: cmwdr01@nt.com qrl? de N4ELM/qrp

All opinions are my own and do not necessarily reflect the views of
my employer, co-workers or any other person, real or imaginary.

From ab4el.com Fri May 20 13:49:07 1994
From: KANAMAA%AMGATE%MATRXA@randb.abbott.com
Subject: TDA7000 - R1 boards

From: Kana, Michael (D9CY)
Date: Fri, May 20, 1994 12:51 PM
Subject: TDA7000 - R1 boards
To: QRP Group
Howdy All

I was wondering if any electronics parts dealers carry the TDA7000.
I picked up a few packs years ago when Radio Shack discontinued them
and offered them at a quite reasonable price.

Secondly, there was some mention of who carried the boards/kits for
the R1 receiver. I would like to try this out with a couple of surplus
Watkins Johnson and Anzac Mixers. Now if I could just come up with
a clean phase locked LO, I can tune from 5 to 1000 Mhz.....
I wonder if Far Circuits would make the boards?

7.3E-03 de AA9IL
Mike Kana

From ab4el.com Thu May 19 10:11:47 1994
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: Ten-Tec VFO

To: Trevor G. Smith
Please email me regarding the VFO-my email has been hosed
for the last day or so-please try again.

Thanks!

Chip Owens, NW00
owens@stout.atd.ucar.edu

From ab4el.com Thu May 19 16:15:49 1994
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: Ten-Tec VFO

To: Trevor G. Smith

The VFO is yours as you were the first to inquire.

Send check/m.o. to me at:

James Owens
1363 Tipperary St. RR3
Boulder, CO 80303

I'll pay shipping. Be sure to tell me where you want the vfo sent.

Thanks again!

"Chip" Owens, NW00
Boulder, CO

From ab4el.com Wed May 18 20:24:48 1994

From: ryme@wpsmtp.bloomu.edu

Subject: Thanks for Demo Help!

Hi gang,

We have a small group of interested Hams here watching the Internet in use. Thanks for the answers to the question about newbies and equipment.

See you later,

Thanks again,

73

John

N3PFF

From ab4el.com Wed May 18 12:16:01 1994

From: "W. Daniel" <pandora!daniel@Think.COM>

Subject: The revised QRP+

Hi Gang,

I was wondering if anyone has tried the revised QRP+ with the new mods and the filtering. Are the birdies Chuck found still there? How does this baby perform? Say, compared to an ARK 20? Does it have a "dial-lock" feature? What about the microphone gain problem? Are the bugs all ironed out yet?

Is there any chance that this rig will come out as a kit?

I know its a lot of questions but \$595 is a lot of money to part with. Tks agn.

73,
Daniel
--

```
+-----+-----+
| Daniel Wee | daniel%pandora@csah.com | ** Man needs more
| UUCP1.12b | daniel.wee@f516.n600.z6.fidonet.org | than a new start, he
| SNEWS 1.91 | csah.com!pandora!daniel | needs a new heart! **
+-----+-----+
```

From ab4e1.com Wed May 18 01:22:08 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Re: There's an echo in here ...

The echo is on both the QRP and Boatanchors email nets.

The echo is on both the QRP and Boatanchors email nets.

The echo is on both the QRP and Boatanchors email nets.

The echo is on both the QRP and Boatanchors email nets.

The echo is on both the QRP and Boatanchors email nets.

From ab4e1.com Sat May 14 22:08:37 1994
From: BHOWLE@delphi.com
Subject: TNX ALL 4 LM-386 INFO !

Tnx to all for the LM-386 pin out info - I'm still waiting for my T-Kit audio amp., but will post the results as I try to mate it to the audio section of my MFJ-9020 -

Bob - WA4ZID

From ab4e1.com Tue May 17 14:53:30 1994
From: "Kevin Anderson" <GGANDERSON@Augustana.edu>
Subject: Re: UK (was Seeking Foreign Ham Pubs)

> Date sent: Fri, 13 May 94 14:20:46 PST
> From: janderson@polycom.com
> To: qrp@Think.COM
> Subject: Seeking Foreign Ham Pubs

> Does anyone know how to buy/subscribe/obtain Amateur Radio
> publications from foreign countries? I'm trying to find sources
> for magazines (and books) from, say, the U.K., France, Germany,
> Japan, etc., but I have no idea who to contact. Has anyone else
> previously traveled down this same path and succeeded?

Here is what I can fill in on UK radio publications:

Practical Wireless -- published monthly for \$45/year by PW
Publishing Ltd., Arrowsmith Court, Station Approach,
Broadstone, Dorset BH18 8PW, United Kingdom, with
second class postage paid from Middlesex, New Jersey.

I've seen individual copies advertised for purchase
for \$3.50 from Townsend Electronics, P.O. Box 415,
Pierceton, Indiana, 46562, 1-800-944-3661.

PW is the UK equivalent to CQ or 73 in the U.S., and is not
the publication of the RGSB. The same publisher also puts
out a magazine called Shortwave Magazine for the same price.

Ham Radio Today (HRT) -- a newer competitor to PW. Maybe not
as polished yet, but I found good. Available in the
U.S. from Wise Owl Worldwide Services, 4314 West
238th Street, Torrance, California 90505-4509,
Credit card orders (310) 375-6258, Fax (310) 375-0548
Pacific time 9am to 9pm weekdays and 10am to 6pm
weekends.

Our UK list members can comment on these further (I was in
London last fall and bought two issues of each of these
three magazines), but I found them interesting in contrast
to US magazines. VHF (low power SSB and CW as well as 10
Ghz) seems to be big (where else can you DX on VHF with
little trouble!), as well as kit building, adapting
commercial (PMR) sets, and QRP. The UK Novice license is
even QRP (3 watts or less output). For the price, the size
of magazine in page count is less than CQ (more like 73)
and doesn't have the small type of 73 (more like CQs), but
nonetheless have content worth keeping.

Disclaimer: I do not work for any of these publishers, nor
currently or have ever subscribed to them, received
royalties or other rewards. I've only read and liked them,
and am providing information hopefully useful to the
'general' public. (Is that enough?)

Cheers. 72 de Kevin, KB9IUA

Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu

From ab4el.com Thu May 19 05:41:07 1994
From: g3rjv@gqrp.demon.co.uk (George Dobbs G3RJV)
Subject: Re: UK (was Seeking Foreign Ham Pubs)

In message <6A618000A70@augustana.edu> Kevin Anderson writes:

> > Date sent: Fri, 13 May 94 14:20:46 PST
> > From: janderson@polycom.com
> > To: qrp@Think.COM
> > Subject: Seeking Foreign Ham Pubs

>

Practical Wireless -- published monthly for \$45/year by PW
> Publishing Ltd., Arrowsmith Court, Station Approach,
> Broadstone, Dorset BH18 8PW, United Kingdom, with
> second class postage paid from Middlesex, New Jersey.

>

> I've seen individual copies advertised for purchase
> for \$3.50 from Townsend Electronics, P.O. Box 415,
> Pierceton, Indiana, 46562, 1-800-944-3661.

>

FROM G3RJV : VERY LITTLE TO ADD - SEEMS YOU HAVE ISOLATED THE MAIN UK MAGS
THE PW IS, I BELIEVE BETTER THAN HRT. THEY HAVE A POLICY OF TRYING TO BE
INTERNATIONAL AND FEATURE MORE PRACTICAL CONSTRUCTION ITEMS.
THE SWM (SHORT WAVE MAGAZINE) IS A LISTENER MAGAZINE
THE HRT IS RUN BY A HUSBAND & WIFE TEAM : VERY ANTI-CODE, LOTS OF PMR MODS
(THATS THE HUSBAND'S LINE OF WORK) BUT GOOD REVIEWS (ALL BY THE HUSBAND) ON
MAINLY VHF EQUIPMENT. BUT..... DOES RUN A QRO COLUMN BY DICK, G0BPS, ONE
OF OUR FELLOW TRAVELLERS IN THIS GROUP.

>

> Ham Radio Today (HRT) -- a newer competitor to PW. Maybe not
> as polished yet, but I found good. Available in the
> U.S. from Wise Owl Worldwide Services, 4314 West
> 238th Street, Torrance, California 90505-4509,
> Credit card orders (310) 375-6258, Fax (310) 375-0548
> Pacific time 9am to 9pm weekdays and 10am to 6pm
> weekends.

>

George Dobbs G3RJV
G-QRP Club

"It is vain to do with more,
what can be done with less."

----- William of Occam (1290-1350)

From ab4el.com Wed May 18 12:13:17 1994
From: "William P. Osborne" <wosborne@nmsu.edu>
Subject: Unsubscribe me Please

too much traffic for me to keep up with

From ab4el.com Tue May 17 15:10:11 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: VFO INFO

Ok guys, here is my problem. I want to build a VFO for 3.9 to 4.0 MHz. The circuit that I want to use is Dave Benson's In Search of a Stable VFO that appeared in QRP Quarterly, July 92, page 32, and Sprat #66. The reason that I want to use this circuit is that I want the VFO on a circuit board, and I have a board purchased from FAR circuits. What do I need to do to change the circuit from 40 meters to 75 meters. Any and all help will be appreciated.

72, Doug, KI6DS

From ab4el.com Wed May 18 10:47:36 1994
Subject: Re: VFO INFO
From: "John F. Woods" <jfw@ksr.com>

> Ok guys, here is my problem. I want to build a VFO for 3.9 to 4.0 MHz. The
> circuit that I want to use is Dave Benson's In Search of a Stable VFO that
> appeared in QRP Quarterly, July 92, page 32, and Sprat #66. The reason that
> I want to use this circuit is that I want the VFO on a circuit board, and I
> have a board purchased from FAR circuits. What do I need to do to change
> the circuit from 40 meters to 75 meters. Any and all help will be
> appreciated.

Well, keeping the circuit board might be a bit tricky. All you really need to do are pick reasonable frequencies for the VFO proper and the crystal (if you don't have a crystal in stock, 6.000 and 6.144Mhz are available from Digikey, and would go well with a roughly 2+MHz VFO, easy to stabilize), and choose capacitors and inductors to resonate appropriately. The trouble with using the circuit board is that the heinous 7mm IF transformers will be really tough to resonate at 4MHz; I don't know precisely what value of capacitance would be needed, but you might wind up with too low a Q to do well (since the reactances are going to be a third of what they are at 10.7MHz). You might do better with using slug-tuned coil forms, if you can manage to get them to fit in the holes for the IF transformers (maybe using the diagonal and adding a piece of copper foil to ground, if the pins on the coil form are too far apart for the obvious holes?).

As for cap & inductor values, I've left all my references at home (except for the SPRAT that contains the VFO article).

From ab4el.com Sat May 14 11:38:56 1994
From: brucerob@epas.utoronto.ca (Bruce Robertson)
Subject: VFO tuning range

I've just recently subscribed to this group, and I must begin by saying I'm really impressed by the friendliness and competency of the discussion. I'm working on a tx/rx for 30m. The tx board works well enough: 1.5 w and vxo. The tx/rx switching circuit out of DeMaw's book seems fine, too. What has me slightly flummoxed is the reciever.

I bought a 'Sudden' kit from Kanga without the var. cap. because the loca surplus store has a million of them. It worked first time up, except that I was tuning about 2 Mhz! To shorten the range of the thing I started pulling rotor plates - that only brought us down to 1 Mhz or so. Now both of these ranges were centered a fair bit below the band, so I tried a new var. cap in series with a fixed cap. Eventually this worked better, but with a very small ceramic (6 pF).

However, at this point I noticed something interesting - the receiver would hear the signal only when it was beating 1000 hz + away from the signal. The receiver (dir. con. with NE602) wouldn't go all the way down to zero beat and back up, as it did with the higher value capacitance in the VFO. The note, as well, was not as pure. I assume that this means the vfo is being operated with too little cap., but can anybody explain this effect? I assume that almost any var. cap with the proper fixed cap in series and the right value in parallel will produce the range of capacitance I need. Is there something wrong with this thinking? Probably the easiest thing to do would be to get the right cap. from Kanga, I know. But I'm learning and having fun muddling through this.

72, VE3UWL

Bruce G. Robertson internet: brucerob@epas.utoronto.ca
Dept of Classics Satius est enim otiosum esse quam nihil agere.
University of Toronto It's more fun to relax than it is to do nothing
 at all. Pliny _Ep_ 1.9.8

From ab4el.com Tue May 17 20:56:28 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Wind Generator Battery Charger

Oh, forgot to mention that I've been walking into various offices in my department with my steel blade checking the fans to feel for permanent magnets - seems none have magnets.

I think this project is doomed... Next step is to secure a bicycle generator, for that WILL work.

Phooey.

Jeff

From ab4el.com Tue May 17 19:37:33 1994

From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: Wind Generators

Gang: I couldn't stay away, and I'm sorry for scolding the net for so much kit-talk. I realize now that kits are vital to the growth of QRP and kit-building is the next best thing to homebrewing (or might even be considered homebrewing) (had to cover myself there - recall the thread 6 months ago?).

Now, I'd like to get some ideas about making a wind generator to charge batteries; during my weekend dumpster-diving at the harbor I periodically find 120VAC fans (the interior of boats can get quite hot during the summer months here in Hawaii many of the live-a-boarders keep a fan cranking day and night while on shore power).

My question is this: can a 120VAC fan motor work as a generator? I know the output voltage would have to be rectified and regulated, but will there even BE an output voltage? Someone has said 'yes, if the motor contains permanent magnets'.

The fan I found this weekend has very nice 6 bladed prop - very sensitive in that the slightest breeze will cause it to start churning, but I'm not getting any voltage reading. I've tried to detect for permanent magnets by running a thin steel blade into the housing but don't feel any attraction so I doubt there are any magnets.

Anyone ever had success implimentating such an idea?

.73,
Jeff NH6IL

From ab4el.com Tue May 17 20:36:25 1994

From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: Wind Generators

Gang: I couldn't stay away, and I'm sorry for scolding the net for so much kit-talk. I realize now that kits are vital to the growth of QRP and kit-building is the next best thing to homebrewing (or might even be considered homebrewing) (had to cover myself there - recall the thread 6 months ago?).

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find 120VAC fans (the interior of boats can get quite hot during the summer months here in Hawaii many of the live-a-boarders keep a fan cranking day and night while on shore power).

My question is this: can a 120VAC fan motor work as a generator? I know the output voltage would have to be rectified and regulated, but will there even BE an output voltage? Someone has said 'yes, if the motor contains permanent magnets'.

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Anyone ever had success implimentating such an idea?

.73,
Jeff NH6IL

From ab4el.com Tue May 17 21:45:11 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Wind Generators

Gang: I couldn't stay away, and I'm sorry for scolding the net for so much kit-talk. I realize now that kits are vital to the growth of QRP and kit-building is the next best thing to homebrewing (or might even be considered homebrewing) (had to cover myself there - recall the thread 6 months ago?).

Now, I'd like to get some ideas about making a wind generator to charge batteries; during my weekend dumpster-diving at the harbor I periodically find 120VAC fans (the interior of boats can get quite hot during the summer months here in Hawaii many of the live-a-boarders keep a fan cranking day and night while on shore power).

My question is this: can a 120VAC fan motor work as a generator? I know the output voltage would have to be rectified and regulated, but will there even BE an output voltage? Someone has said 'yes, if the motor contains permanent magnets'.

The fan I found this weekend has very nice 6 bladed prop - very sensitive in that the slightest breeze will cause it to start churning, but I'm not getting any voltage reading. I've tried to detect for permanent magnets by running a thin steel blade into the housing but don't feel any attraction so I doubt there are any magnets.

Anyone ever had success implimentating such an idea?

.73,
Jeff NH6IL

From ab4el.com Wed May 18 13:01:21 1994
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: Wind Generators

Jeff Sez,

>My question is this: can a 120VAC fan motor work as a generator? I know
>the output voltage would have to be rectified and regulated, but will
>there even BE an output voltage? Someone has said 'yes, if the motor
>contains permanent magnets'.

Most of those motors are squirrel cage types and I haven't found any way to
get any output from them. Someone else posted a note about putting a cap
across them, I'll try that sometime.

>

>The fan I found this weekend has very nice 6 bladed prop - very sensitive
>in that the slightest breeze will cause it to start churning, but I'm
>not getting any voltage reading. I've tried to detect for permanent
>magnets by running a thin steel blade into the housing but don't feel
>any attraction so I doubt there are any magnets.

>

>Anyone ever had success implimentating such an idea?

Yeah, a little. Don't get to spend enough time at it though :-). What I did
was grab the nice 6 bladed fan off the shaft and couple it to another
generator. In my case, I used a largish servo motor rated at a couple of
amps at 5 volts. There are 3-4 winding per motor, and I found I could grab
two of them in series and parallel the two series legs and get about 15
volts at 1-2 amps for reasonable rotation speeds. The little servos seem to
make darn good alternators, and now I keep my eyes open for them whenever
I'm dumpster diving. I used a similar fan blade to yours and in stiff
breezes was able to charge a 12 volt cell at about 1 amp. Enough for
qrping.

There was a project build a while ago using bicycle generators. They are
fairly stiff to turn compared to the servo (but put out more energy at
lower RPMs) so you need a fairly torquey blade group - the kind of
windmills used to pump water which has a lot of starting torque but bad
losses at higher rpm work ok for this. The blades can be flat slats set at
an angle. I built one prototype using a bicycle wheel with paper between
the spokes (which made an appropriate angle) spinning with the wheel
driving the generator. It also made reasonable power in a stiff breeze.
Bike generators are usually 6 vac at 1 amp or so, but I have found some 12
vac at .5-1 amp units.

The most effiecient propellers are single or two bladed (the ideal is one blade, but they don't balance too well, two blades balances reasonable if you don't turn it fast, but you get some masking from the second blade plus twice the whetted surface losses, 3 blades is about the best dynamic balance - but the losses are higher yet. Most wind generators use two blades) with long skinny blades shaped like sailplane wings. Hard to carve. But, you can buy a \$3 foam sailplane with 4 foot wings. Remove the wings, cover them with nylon or something, and attach them appropriately to a hub and you should have a pretty good impeller good and easy. Haven't tried that yet, though I do have the wings salted away.

Be interested to hear of your experiments Jeff.

Kevin, WB2EMS

From ab4el.com Tue May 17 23:08:46 1994
From: BOB@psychnet.psychol.utas.edu.au
Subject: Re: Wind Generators

>
> My question is this: can a 120VAC fan motor work as a generator? I know
> the output voltage would have to be rectified and regulated, but will
> there even BE an output voltage? Someone has said 'yes, if the motor
> contains permanent magnets'.
>

Jeff,

Most fans use induction tpe (a.k.a. squirrel cage) motors. These are no use whatever for generating. You **might** find some with brush type series wound motors - these should work but will have considerably higher friction loadings due to the brushes.....

73
Bob. VK7RD

--

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-----
| email:          bob@psychnet.psychol.utas.edu.au |
|
| postal:         Robert Reid,  Dept of Psychology |
|                 University    of      Tasmania |
|                 GPO Box 242C, Hobart, Tasmania |
```

			Tel: 61-02-202242	
	Australia.		Fax: 61-02-202883	

From ab4el.com Wed May 18 02:01:04 1994
From: Michael Stein <OSYSMAS@MVS.OAC.UCLA.EDU>
Subject: Re: Wind Generators

> Most fans use induction tpe (a.k.a. squirrel cage) motors. These
> are no use whatever for generating.

Some use...

See Communications Quarterly, Spring 1994 (just arrived today),
"Tech Notes" section on page 6:

First note is on building a 230 volt generator from scrap (AC induction motor). The trick seems to be some residual magnetism in the core (usually, can be added if needed), and a capacitor in parallel with the motor. ("Capacitive excitation"). The diagram just shows a 3/4 HP 230V 2850 RPM induction motor in parallel with a 36uF/400VAC capacitor.

Something about the capacitor size being close to that which gives the motor a unity power factor on the normal powerline.

The example is for a 50 Hz motor.

(tech note is reprinted from September 1993 of "Break-In".

ref: E.D. Basset and F.M. Potter, "Capacitive Excitation for Induction Generators", Trans AIEE, May 1935, vol 4, page 540.

From ab4e1.com Fri May 20 08:57:09 1994
From: Bruce Walker <bruce@Think.COM>
Subject: WT1M out for a while

I'll be out of town on business next week, so any mail to qrp-admin@think.com will probably be unserviced until Memorial Day or thereabouts. This is a big time for mailing list changes, since school's letting out. This is a reminder that if you want to remove yourself from this list, send mail to majordomo@think.com containing the line:

```
unsubscribe grp
```

```
(or "grp-digest" if that's how you're getting this). --bruce WT1M
```

From ab4el.com Mon May 16 22:04:50 1994

From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: [Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>: Chuck"s QSK

Received: from churchy.gnu.ai.mit.edu ([128.52.46.32]) by galaxy.net.Hawaii.Edu
with SMTP id <178174>; Mon, 16 May 1994 15:32:00 -1000

Received: by churchy.gnu.ai.mit.edu (5.65/4.0)

id <AA16601@churchy.gnu.ai.mit.edu>; Mon, 16 May 94 20:58:53 -0400

Received: from uhunix4.uhcc.Hawaii.Edu by churchy.gnu.ai.mit.edu (5.65/4.0) with
SMTP

id <AA16596@churchy.gnu.ai.mit.edu>; Mon, 16 May 94 20:58:44 -0400

Received: from (uhunix3.uhcc.Hawaii.Edu) by uhunix.uhcc.Hawaii.Edu (4.1/Sun690)

id AA10842; Mon, 16 May 94 14:52:50 HST

Received: by (4.1/uhunix3.uhcc.Hawaii.Edu)

id AA03532; Mon, 16 May 94 14:57:26 HST

Date: Mon, 16 May 1994 14:57:25 -1000

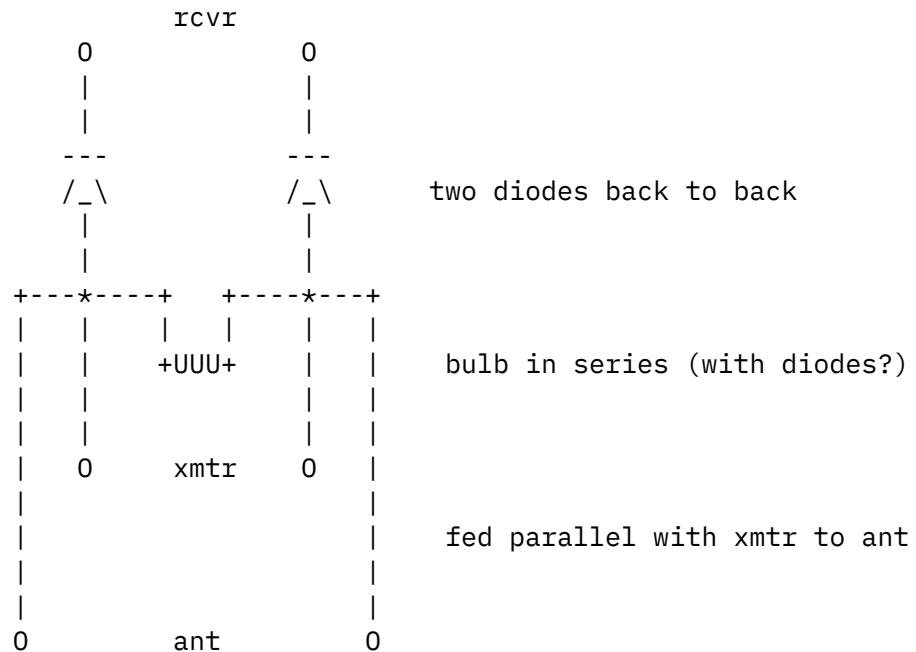
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>

To: boatanchors@gnu.ai.mit.edu

Subject: Chuck"s QSK circuit

Message-Id: <CMM.0.90.2.769136245.jherman@uhunix3.uhcc.Hawaii.Edu>

Chuck said that his homebrewed qsk consisted of two 1N43 diodes back-to-back
across the rvcr terminals with a 125V 5W bulb in series fed parallel with
xmtr to ant:



Oops - diodes inverted?

Is this correct? 125V 5W bulb provides 3K ohms?

.73,

Jeff NH6IL